MAGNETICAL, METEOROLOGICAL, AND SEISMOGRAPHIC OBSERVATIONS

MADE AT THE

GOVERNMENT OBSERVATORIES, BOMBAY & ALIBAG,

1906 to 1910.

WITH APPENDICES.

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Presented by Order of the Right Honourable the Governor General in Council, India,

To The Secretary,
Bombay Branch of the
Royal Asiatic Society,
Bombay.

BOMBAY BRANCH
OF THE
Royal Asiatic Society.

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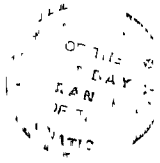

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WITH APPENDICES.

Magnetometer Office and Absolute Observation Building.

ALIBAG.

MAGNETICAL, METEOROLOGICAL, AND SEISMOGRAPHIC OBSERVATIONS

MADE AT THE

GOVERNMENT OBSERVATORIES,

BOMBAY AND ALIBAG,

IN THE YEARS

1906 TO 1910,

UNDER THE DIRECTION OF

N. A. F. MOOS, Esq., D.Sc., F.R.S.E.

WITH APPENDICES.

Printed by order of His Majesty's Government.

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	1906.		1907.		1908.		1909.		1910.	
	Table.	Page.	Table.	Page.	Table.	Page.	Table.	Page.	Table.	Page.
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	1906.		1907.		1908.		1909.		1910.	
	Table.	Page.	Table.	Page.	Table.	Page.	Table.	Page.	Table.	Page.
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BOMBAY METEOROLOGICAL, MAGNETICAL AND SEISMOGRAPHIC OBSERVATIONS, 1906 TO 1910.

INTRODUCTION.

The present volume—the fortieth of its kind—extends the record of the Meteorological Observations at the Government Observatory, Bombay, to a period of sixty-five years, of Seismographic Observations to a period of twelve years, and of the Magnetic Observations at the Alibág Observatory to a period of seven years. The latter thus practically preserve the continuity of the Bombay Magnetic record which had run uninterruptedly at Colába for sixty years from 1846 to April 1906.

2. *Local Situation of the Colába Observatory.*—Two unequally developed ridges of trap hills running almost parallel to each other some three miles apart, constitute one of the conspicuous physical features of the Island of Bombay. Unlike Malabár Hill to the west which forms practically one continuous and unbroken ridge from Malabár Point to Maháluxmee, the eastern ridge running from Colába on the south to Sion towards the north-eastwards, rises now and again in small hills of much lower elevation, but usually lying low, often as not falls below the level of the sea and is deeply covered with alluvium. The Observatory is located almost at the extreme end of this narrow ridge of land called Colába, extending about two miles south-west from the Fort of Bombay and separating the Harbour from Back Bay. The mean level of the Observatory compound is 32 feet above the mean level of the sea. Traps and greenstones which abound on the whole surrounding coast, crop up at various places through the red sandy soil characteristic of the hills in the vicinity. The nearest elevated ground is Malabár Hill lying northwards at a distance of about 4 miles on the opposite side of the Bay, the highest point of which is about 180 feet from sea level, while that which subtends the largest vertical angle—but less than 1° 7′—as seen from this Observatory, is the southern hill of the island of Karanja situated east-south-east at a distance of about 8 miles across the Harbour.

The co-ordinates giving the geographical position of the Observatory are—

* Latitude 18° 53′ 36″ North.
Longitude 72° 48′ 56″ East.

The buildings concerned with the production of the observations recorded herein are, (1) the Astronomical Observatory and the Anemometer Tower, with a western wing, the greater part of which serves as a computing room, whilst the remainder is partitioned off for a photographic operating room; (2) the Magnetical Observatory with the adjoining Electrometer Tower; (3) the underground room for the photographically registering instruments; (4) the Thermograph Shed, enclosing the thermograph room; (5) the old Thermometer Shed; and (6) the three Seismograph Buildings.

3. *Alibág Magnetic Observatory.*—Early in 1900 the City of Bombay finally decided to employ electricity as motive power for its street tram service. Magnetic work, hence, which had run uninterruptedly for over 50 years by then at the Bombay Observatory, was thus threatened by the proposed introduction of the electric traction, and prompt action in the interests of the Observatory seemed essentially urgent. Efforts to find some *modus vivendi* which might allow this work to be continued at the Observatory at Colába without serious vitiation from the disturbing effects of the lines, having proved abortive, no alternative seemed possible but to remove the magnetic work to some suitable site in the neighbourhood. It became imperative under the circumstances to make provision without delay for the establishment of the new Observatory at some protected site elsewhere, which might allow comparative observations for a fairly long period to be made at the new and old sites before the conversion of the ordinary tram lines into electric traction was completed, and thus enable, if possible, the continuity of the Bombay record to be preserved.

The necessary sanction and orders were issued by Government, and of the several sites recommended a suitable one least open to objection was selected some 18 miles away from Bombay. It was far away enough to be beyond the disturbing effects of the electric lines in Bombay, but sufficiently near presumably to have similar magnetic conditions. The situation of Alibág also was otherwise favourable. There was no reasonable probability, at least in the near future, of a railway service (eventually driven by electric

* These are the Astronomical values, while the corresponding Geodetic co-ordinates are as follow :—
Latitude 18° 53′ 47″ North.
Longitude 72° 48′ 47″ East.

motive power) extending southwards from the Bombay line along the coast passing through Alibág near enough to affect the magnetic work which might compel the removal of the Observatory again in a few decades, to another site.

The site was secured in 1902, and the construction of the buildings, the description of which follows, was completed in 1903, and comparative observations commenced in April 1904. After securing an undisturbed duplicate record extending over a period of two years, the magnetic work at Colába was stopped on the 31st March 1906. Disturbed records at Colába were subsequently also secured for a few days when the electric tram service commenced working in Bombay. The comparative results of absolute values of the three elements show that at Alibág, Horizontal Force stands lower by ·00510 C. G. S., Easterly Declination stands higher by 53′·5, and Inclination stands higher by 1° 4′·7 than at Colába, which are the finally adopted differences between the two sites. The variations of H., D., and V., were also secured by a set of Watson's magnetographs at Alibág, and by Kew type magnetographs at Colába, and the results show, as anticipated, that the diurnal and annual variation phenomena are almost precisely the same at the two sites agreeing to within a γ or two in the force variations, and o′·1 in the Declination variation (*vide* Appendix C, tables 1—4).

Local Situation of the Alibág Magnetic Observatory.—Alibág is a small town on the mainland, lying across the Harbour about 18 miles south-south-east of Bombay. The site of the Observatory is located on the foreshore, facing south-west, with a fair extent of sandy beach stretching before it. The ground unlike Colába is flat and low lying about 15 feet above the mean sea level. The situation of the Observatory is otherwise fairly similar to that at Colába. The rocks which abound on the surrounding coasts are traps as at Colába. The chain of small hills on the north and north-eastwards about four miles away from Alibág which forms practically the continuation of the main trap barrier ridge running from Bassein some forty miles to the north of Bombay rises in small hills, mounds and rocky slopes which gather into a more or less central range of hills running north-west to south-east of which Kankeshwar, Sakarghad and Ramdharan about 1,200 feet high, form the highest peaks.

The co-ordinates giving the geographical position of the Observatory are—

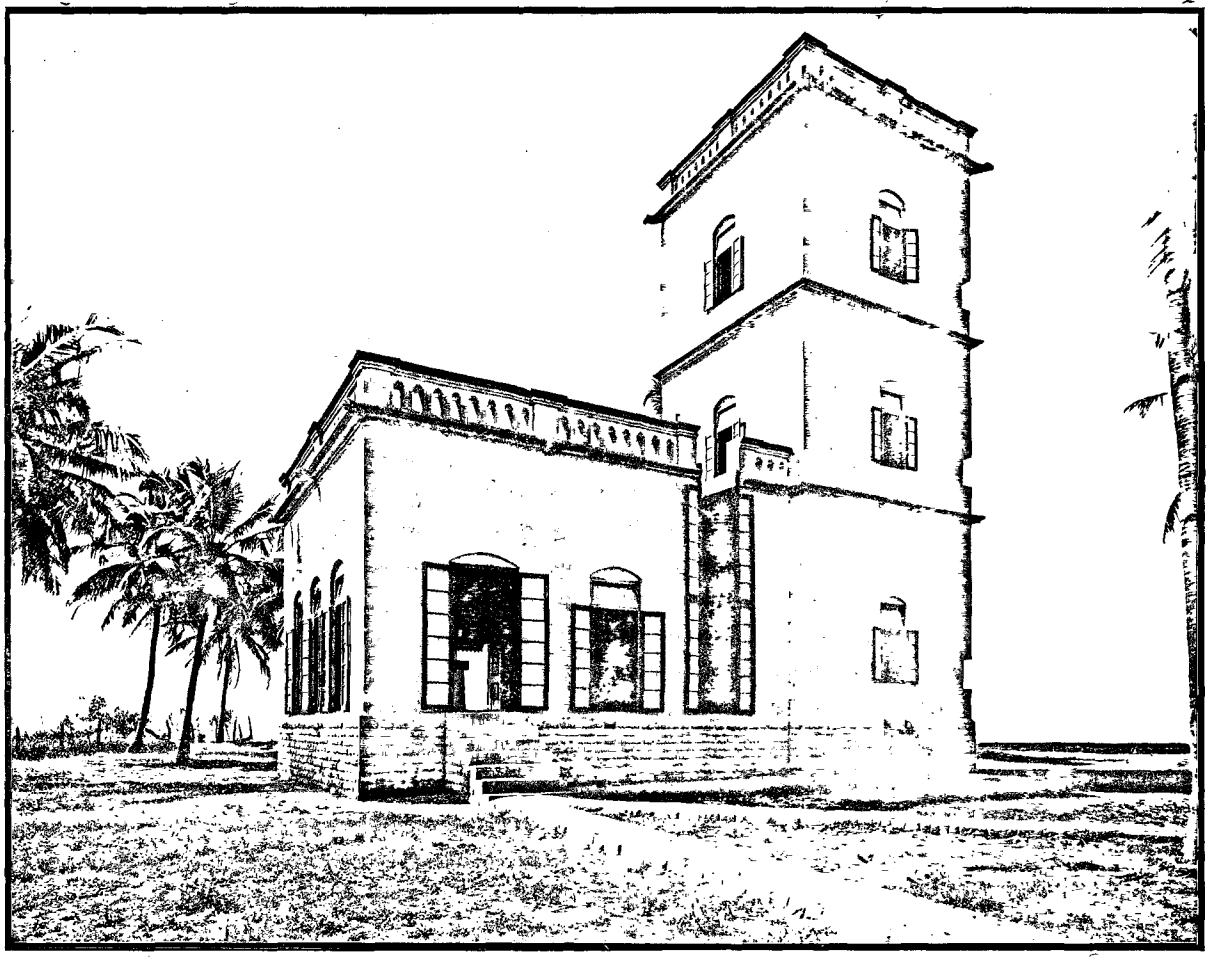
† Latitude 18° 38′·3 North.
Longitude 72° 52′·35 East.

The Observatory grounds, consisting of about 7 acres, are self-contained, being bounded on three sides by roads and on the south-west side by the sea. Besides the Director's quarters, Assistants' residence and office and photographic room, the buildings chiefly concerned with the production of the observations recorded are (1) the Magnetometer Office where absolute observations are made, and a set of eye-reading variometers have been mounted and (2) a Magnetograph Building, in which two sets of variation instruments by Watson and Eschenhagen, have been installed. Both buildings are constructed absolutely of non-magnetic materials. All the fittings are either of copper or brass duly tested before their use in the buildings, and the building materials throughout are non-magnetic, the stone used being a pure sand-stone from Porebunder in Káthiáwár.

The Magnetometer Building—a plan and section of which with pictures are given in plates 1-3—consists of a basement room and a tower with two floors. In the basement room is mounted the Transit instrument for the determination of time locally. For this purpose the flat roof is so constructed as to allow of a portion of it to be opened up whenever required for star observations. In the same room are mounted also, on isolated pillars, the Kew type magnetographs which had been in action at Colába for 35 years. These are used here however, as simple eye-reading variometers only and observed five times a day. In the tower room on the second floor are mounted the Observatory standard instruments—Magnetometer No. 7 by Cooke, Schulze's Inductor, and Dip Circle. On the first floor auxiliary observations of H. and D. are taken by Magnetometer No. 3 by the Cambridge Scientific Instrument Co. On the ground floor Magnetometer No. 137 by Dover Charlton is used for deflection experiments which serve as a check on the deflection experiments on the magnetographs for standardising the curves. The reference mark used for azimuth observations is here also the Kennery Light-house situated some five miles and a half away from Alibág, which is visible also from Colába where it has served the same purpose for the last 50 years. The azimuth of the mark is 137° 53′ 25″ W. of S. and can be seen from any of the three tower rooms through specially constructed slit windows suitably provided in the corners of the tower rooms as the building is oriented N.-S. and E.-W. (*vide* plates 1-2). The azimuth of Kennery from Colába is 179°·49′ 30″ E. of N.

The recording variation instruments are mounted in an *overground* Magnetograph Building, *vide* plate 4, the plan and section of which are shown in plate 5. The inner room is 25 × 30 feet. It is surrounded by walls 3 feet thick of Porebunder stone. Access to the room is obtained by a single entrance

† These are Astronomical co-ordinates, the corresponding Geodetic values are :—
Latitude 18° 38′·6.
Longitude 72° 52′·2.



Magnetometer Office and Absolute Observation Building.

ALIBAG.

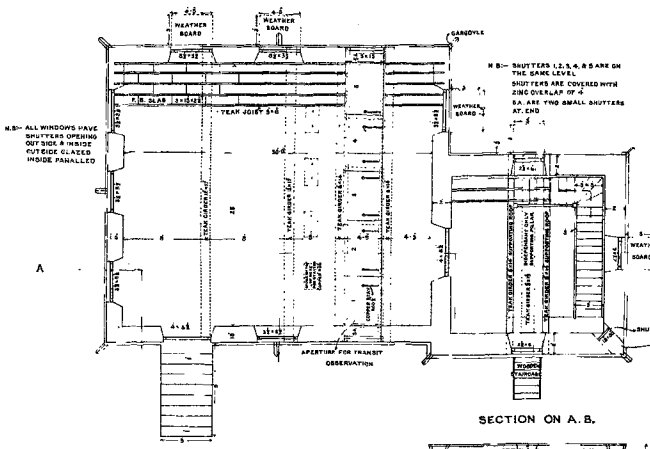
OBSERVATORY AT ALIBAG

MAGNETOMETER OFFICE

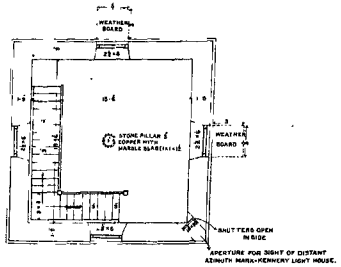
SCALE OF FEET

1903

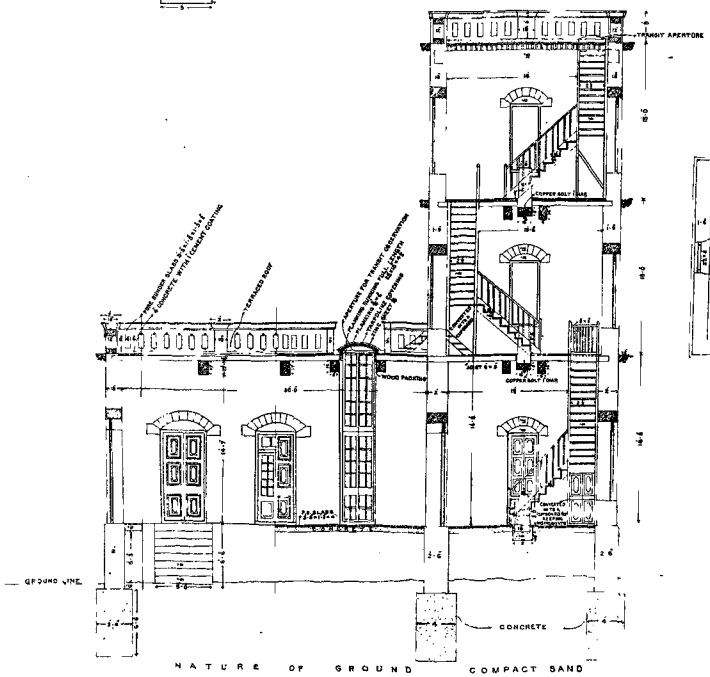
GROUND PLAN


WEATHER BOARD
GARGOYLE
N.B:- ALL WINDOWS HAVE SHUTTERS OPENING OUT SIDE & INSIDE OUTSIDE GLAZED INSIDE PANALLED
N.B:- SHUTTERS 1,2,3,4,&5 ARE ON THE SAME LEVEL SHUTTERS ARE COVERED WITH ZINC OVERLAP OF 4" S.A. ARE TWO SMALL SHUTTERS AT END
TEAK JOIST 5"x6"
A
B
APERTURE FOR TRANSIT OBSERVATION
SHUTTERS OPEN IN-SIDE
BUT APERTURE IN N.W. CORNER TO BE PLACED 5'-6" ABOVE FLOOR FOR SIGHT OF DISTANT AZIMUTH MARK-KENNERY LIGHT HOUSE.

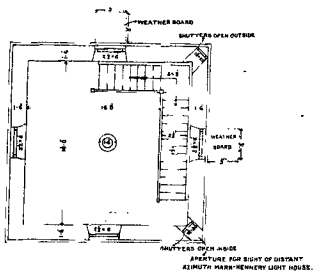
PLAN OF FIRST FLOOR

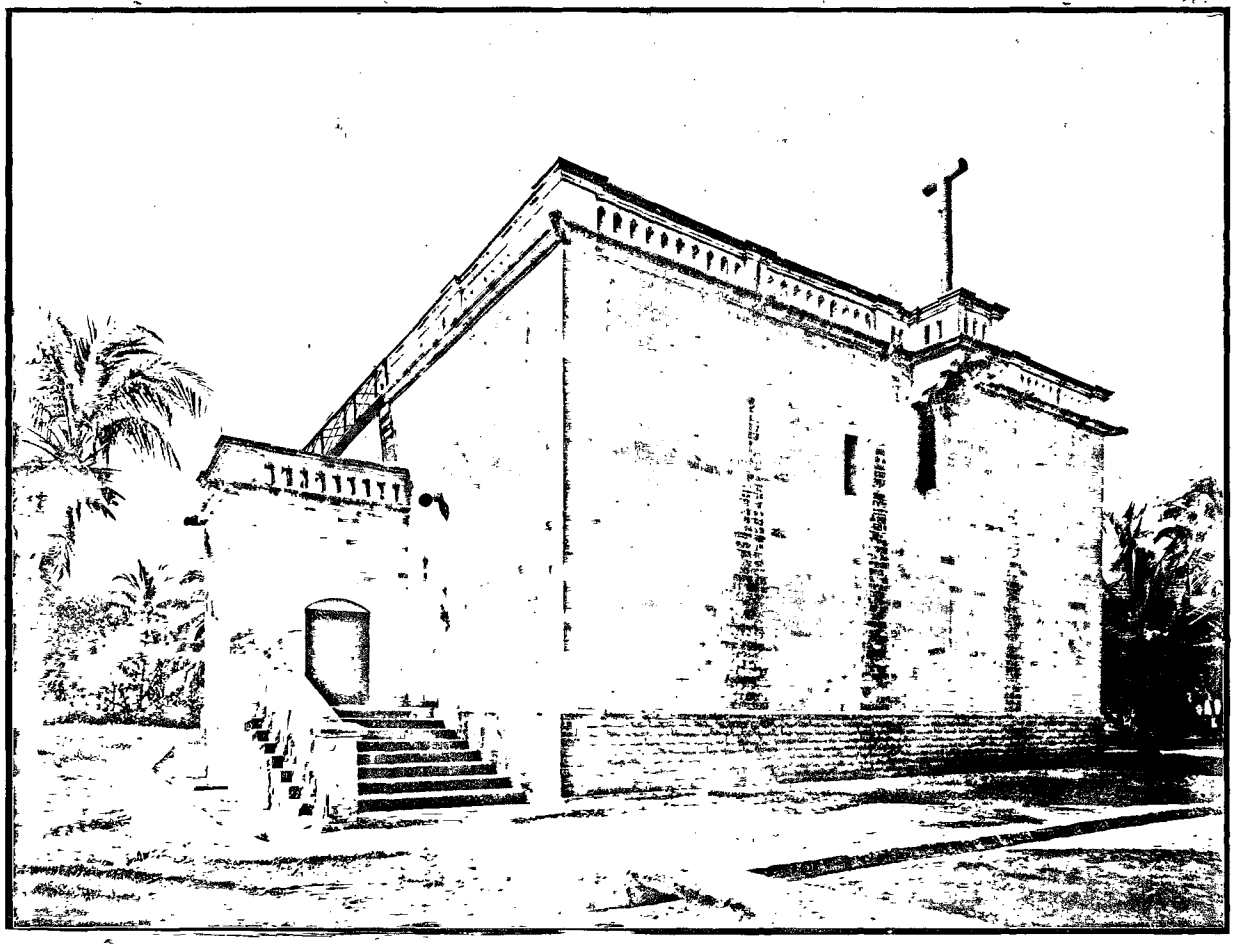

WEATHER BOARD
STONE PILLAR & CORNER WITH MARBLE SLAB
SHUTTERS OPEN IN SIDE
APERTURE FOR SIGHT OF DISTANT AZIMUTH MARK-KENNERY LIGHT HOUSE.

SECTION ON A. B.



PLAN OF SECOND FLOOR

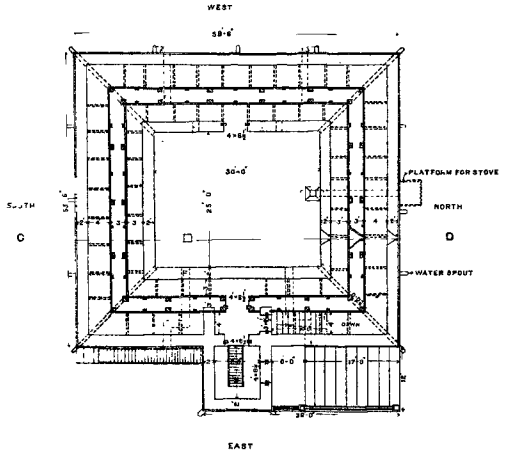




Magnetograph Building.

ALIBAG.

PLAN



OBSERVATORY AT ALIBAG

MAGNETOGRAPH BUILDING

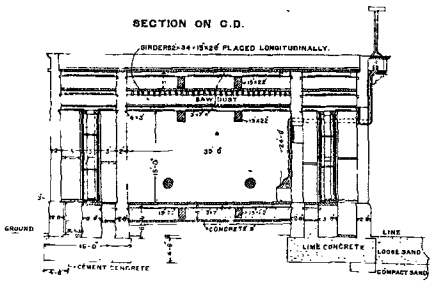
SCALE OF FEET

1903

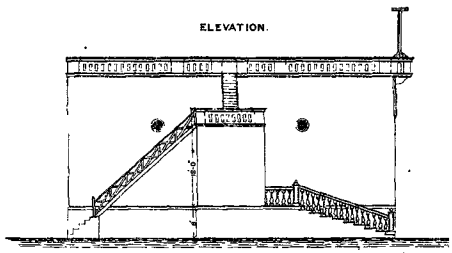
REFERENCES.

A B	DENOTE INLET VENTILATOR [LOW LEVEL] LEADING TO PASSAGE
C D	—D^o—D^o—D^o—[D^o]—D^o—TO CHAMBER
E F	—D^o— OUTLET —D^o—[HIGH LEVEL]—D^o—OUT—D^o—
G H	—D^o—STOVE
N H	—D^o— D^o—CHIMNEY
I I	—D^o—SLIT—WINDOW

SECTION ON C.D.



ELEVATION.



centrally placed in the west wall. This is reached by a narrow passage all round the room, entrance to which from outside is gained from the east side. The passage runs between and is formed by the walls of the inner room and a wooden saw-dust compartment three feet thick. An air space 3 feet wide is kept all round the wooden compartment on the other side, and the whole is then surrounded by an outer wall, 3 feet thick of Porebunder stone. The saw-dust compartment, it will be seen from the section given, is so designed that it completely surrounds the inner magnetograph chamber, passing over the top of this room below the flag stones of the flat roof above, and underneath the flag stones of the floor of the chamber. Suitably designed ventilators are provided both for the ingress and egress of the air at suitable levels. From the thermograph curves shown in plate 6 it will be seen how far the design has succeeded in keeping the temperature uniform inside the room. The daily changes are practically *nil*, while the seasonal variation is from 6° F. to 8° F. The temperature curve in the Alibag magnetograph room which is an *over*-ground building, it will appear from the charts, thus compares very favourably with that of the Colaba magnetograph room which is an *under*-ground building. Isolated pillars are provided in the Magnetograph room for the various instruments, which come up through the wooden compartment and flag stones of the floor. As already remarked elsewhere the room contains the Watson's recording magnetographs for H., D. and V., and Eschenhagen's variometers for H. and V. The latter are used as eye-reading instruments only and serve as a control over the Watson's record, simultaneous eye-readings of both sets of instruments being secured at typical hours five times a day.

4. *Directorship of the Observatories.*—The observations of the years 1906 to 1910 at Colaba and of the years 1904 to 1910 at Alibag were taken under the direction of Dr. N. A. F. Moos, D.Sc., F.R.S.E.

5. *Personal Establishment and Arrangements, 1906—1910.*—In the Magnetical, Meteorological and Seismographic Departments there are one First Assistant and eight observers and computers, and in the Astronomical Department there are one First Assistant and three observers. These several offices were filled during the years in the manner exhibited in the following statement :—

Magnetical, Meteorological and Seismographic Departments, Colaba.

		Initials.
First Assistant	Mukundrai Virshanker Unakar	Muk.
Second „	Waman Vinayak Nene	W. V. N.
Third „	Narayan Sakharam Kelkar	N.
Fourth „	Sakharam Balaji Bapat	S. B. B.
Fifth „	Vishnu Balkrishna Achwal	A.
Sixth „	Padmakar Waman Sirdeshpandye	P.
Seventh „	Mahadeo Dinkar Karmarkar	M. D. K.

Magnetical Department, Alibag.

First Assistant	Ganesh Sadashiv Joshi	G. S. J.
Second „	Balkrishna Pandurang Mayekar	B. P. M.

Astronomical Department, Colaba.

First Assistant	Damodar Vaman Sathaye	D.
First Assistant (Time Ball Service)...	Gopal Pandurang Sabnis	G. P. S.
Second „ „ ...	Krishnaji Bhalchandra Fagre	K. B.
Third „ „ ...	Trimbak Raoji Oak	T. R. O.

Mr. Vinayak Narayan Nene, First Assistant at Colaba, retired from the 31st March 1906 and Mr. Shitaram V. Benderkar, Fourth Assistant, retired from service from 31st October 1906.

The initials against the names of the Assistants are those which the respective officers attach to the several observations and operations performed by them.

6. *System of Observation and Reduction, and Distribution of Work.*—The Astronomical Observatory is furnished with a transit instrument and three sidereal clocks which are used for the determination of the local time primarily for the Time Ball service for communicating time to the shipping in the Bombay Harbour and for rating the large number of chronometers in stock for the ships of the Royal Navy and the Royal Indian Marine, and secondarily for the communication of time by the comparison of clocks three times a day, to the different departments of the Observatory.

The First Assistants are charged with the determination of values of instrumental constants and the more important observations requiring skill and long experience, and they generally control the whole of the work of their respective departments.

Upon the Second Assistant devolve mostly the photographic operations. He is also responsible for all the photographic instruments which require constant and vigilant attention. The anemographs and the meteorological and seismographic work generally are attended to by the Third Assistant. The routine magnetical, meteorological and seismographic observations are in general made by the rest of the

observers, and computers, who are made to take up the work by rotation. Amongst the duties of the observers are included the tabulation of all photograms and seismograms, the calculation and reduction of all meteorological and magnetical elements, the preparation of various meteorological and other returns, the calculation of daily averages and the writing out of the monthly abstracts. The latter consist of tables having the days of the month marked in numerical order in the first column and the hours of the day in order at the head of the columns, and there is one such table for each magnetical or meteorological element observed. In no case are the tabulations and reductions allowed to run into arrears unless very urgent special work is on hand. All observers attend the computing office when not actually engaged on observation duty. The Third Assistant is entrusted with the absolute magnetic observations which at Colaba now, are restricted to declination observations made once only about the middle of the month. At Alibag the First Assistant in charge of the Observatory is entrusted with the absolute magnetical observations and generally controls the whole work at the Observatory there. Eye observations and other general routine work including the photographic work are attended to by the Second Assistant. Although every man is delegated with duties which he is most competent to perform, precautions are taken to keep some of the observers fully instructed in the different operations, to provide for occasional absence of any member of the establishment. All computing operations are systematically performed by one computer and checked independently by a repetition of the operation by another. Residing accommodation is provided on the observatory premises for all members of the establishment. On Sundays and general holidays all Assistants are set free except three, one being kept on observing duty, one in charge of the photographic instruments and one in charge of Astronomical duties. At Alibag, also, eye observations are taken and the photographic duties performed by the two Assistants on Sundays and general holidays in rotation.

System of Observation at Colaba.

(*a*) *Daily Routine Operations.*

Magnetical, meteorological and seismographic observations are taken every day, including Sundays, at the hours 6, 10, 14, 16 and 22 : the day commencing at midnight, Bombay (Colaba), is reckoned from 0 to 24. The time of observation of each element is fixed and the observations are registered with strict punctuality as follows :—

From	5	minutes	to the	hour	{	Extent and description of clouds, state of the weather,
to	2	,,	after the	hour	{	occasional phenomena, and direction of the wind.
At	2	,,	,,	,,	{	Thermograph standard thermometer, dry bulb.
					{	Do. do. do. wet bulb.
,,	3	,,	,,	,,		Newman's rain gauge (in wet season).
From	5	,,	,,	,,	{	Thermometer in ground 1 inch deep.
to	7	,,	,,	,,	{	Do. do. 9 inches deep.
From	7	,,	,,	,,	{	Newman's standard barometer No. 58 and attached thermometer.
to	9	,,	,,	,,	{	Do. do. No. 48 and do.
At	10	minutes	after the	hour		Thermometer attached to barograph.
From	15	,,	,,	,,	{	Thermometers in the Milne's seismograph room and Milne's
to	18	,,	,,	,,	{	seismograph Zero reading.
At	19	,,	,,	,,		Surface thermometers in the sun 1 and 8 inches deep.

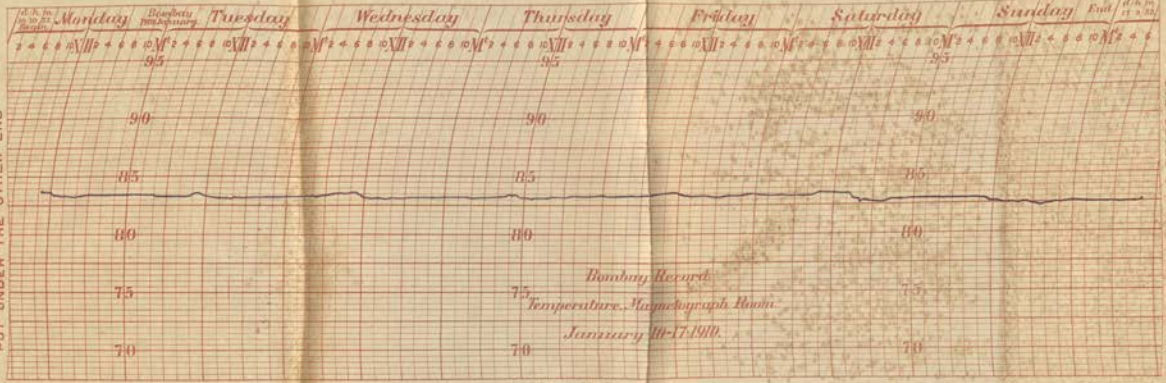
The maximum and minimum thermometers in the thermometer shed, as also the solar radiation thermometer, are read twice daily at 8 and 16 hours.

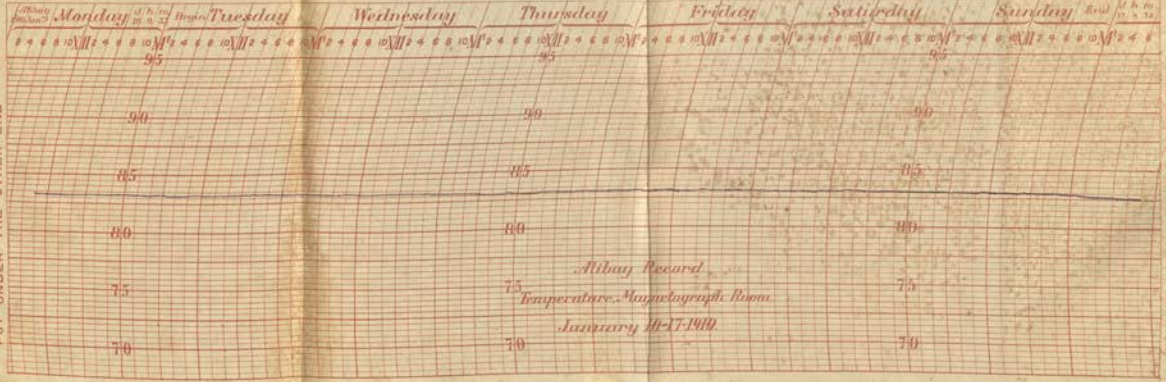
Observations made once daily include readings of (1) the ground thermometers 20, 60 and 132 inches deep, made at 14 hours, and (2) the nocturnal radiation thermometer made at 8 hours. Newman's rain gauge is read daily at midnight during the monsoon months and the discharges of the syphon of the self-registering pluviograph, are also read once or oftener as required. The electric clock controlling the Ball drop and the Harbour clock, is duly regulated by comparison thrice daily with the standard sidereal clock. Government chronometers, belonging to the Royal Indian Marine and Royal Navy stores at the Observatory and those received from merchant ships in the harbour are wound daily or twice a week as required, and comparisons with the standard clock are made with sufficient frequency to render the instruments always ready for issue at call with well-determined rates.

(*b*) *Weekly Routine Observations.*

Transit observations of stars for the determination of time for securing the errors and the rates of the sidereal clocks are made every Monday, Wednesday and Friday in the dry months of the year. During the monsoon months no opportunity is lost for observing either the sun or the stars whenever

THERMOGRAMS: MAGNETOGRAPH ROOMS BOMBAY AND ALIBAG.





visible. The adjustment of the Transit instrument in azimuth is tested frequently by reference to the fixed meridian collimator mark, as also the level errors which are tested and checked once every month ; the errors of collimation, level, and azimuth are determined twice a year in May and December or whenever the collimator shows a displacement of the telescope or any considerable discordance appears in the clock errors derived from observations of stars of different north polar distances.

Observations of magnetic Declination are made once every month at Colaba about the 15th of each month for the determination of the local declination value for the examination and comparison of compasses of ships in the Harbour.

System of Observation at Alibag.

(*a*) *Daily Routine Operations.*

Eye observations of the instruments specified below are taken daily, Sundays included, at 6, 10, 14, 16 and 22 hours at the specified instants of time about the full hour of Greenwich mean time :—

At 19 minutes to the hour :	Kew Horizontal Force Magnetometer and attached thermometer.
„ 17 „ „ „ „ :	Kew Vertical Force Magnetometer and attached thermometer.
„ 15 „ „ „ „ :	Declination Magnetometer and thermometer in the Magnetometer room.
„ 11 „ „ „ „ :	Eschenhagen's Vertical Force Magnetometer and attached thermometers.
„ 10 „ „ „ „ :	Watson's Vertical Force Magnetograph and attached thermometer.
„ 9 „ „ „ „ :	Watson's Declination Magnetograph.
„ 8 „ „ „ „ :	Watson's Horizontal Force Magnetograph and attached thermometer.
„ 7 „ „ „ „ :	Eschenhagen's Horizontal Force Magnetometer and attached thermometer.
„ 6 „ „ „ „ :	Thermograph in the Magnetograph room and standard thermometer (read twice daily at 6 and 16 hours only).

(*b*) *Periodic Routine Operations.*

Deflection experiments, with the vibration magnet of Instrument No. 137 as deflector at 100 cms. distance on the Horizontal Force Magnetograph and with the deflector at 75 cms. distance on the Vertical Force Magnetograph were made once every week. Corresponding deflection experiments at the same distances were also made weekly by the same deflector magnet upon a magnet appropriately suspended over the spot where regular absolute magnetical observations are taken. From June 1908 however these deflections have been taken once a month only and the weekly deflection observations have been made with the vibration magnet of magnetometer No. 3, the moment of which is determined every week from absolute magnetical observations.

Observations of vibration and deflection are made with the two unifilar magnetometers for the determination of the absolute horizontal force every Monday and Wednesday, and, with the same instruments, observations of absolute declination are made every Thursday. Observations of Magnetic Dip are made twice a week, every Tuesday and Friday, two complete sets being obtained with each of the two needles on both days. Two supplementary needles are observed every fortnight on Saturdays, one in the first week and the other in the second week. These supplementary observations however were discontinued, and in their place observations with the Schultz's Inductor were made every Saturday from June 1908.

Installation of the transit telescope was effected in December 1904. Transit observations of stars for the determination of time are made generally on Mondays, Wednesdays and Fridays in the dry months ; during the monsoon no opportunity is lost of observing the sun or stars whenever visible. The adjustments of the transit instruments are frequently tested by reference to the fixed collimator marks and by level observations ; the residual errors of collimation, level and azimuth are determined periodically twice a year, or whenever the collimator shows a displacement of the telescope or any considerable discordances appear in the clock errors derived from observations of stars of different north polar distances.

Before the transit was installed and brought into use, time was communicated to Alibag from Colaba, occasionally by heliograph signals, and regularly four times a week by a preconcerted arrangement of timing the flashes of the Kennery Light-house which is visible from both the observatories. This method is now and again advantageously employed as check on the concurrent time determinations by star observations at Bombay and Alibag.

7. General description of the magnetical and meteorological and seismographic instruments, their adjustments and the process of reduction.

The following details show the special circumstances in connection with the condition, situation and adjustments of the various instruments, as also the habits of the observers and the routine processes of reduction, to enable the reader to form his own independent judgment as to the degree of precision attained in the results and the weight to be attached to any deduction or conclusion that may be drawn from the observations.

(*a*) Meteorological Instruments at Colaba, 1906 to 1910.

Standard Barometer.—The barometer fixed on the eastern wall of the magnetical observatory a few feet from the north-east corner of the room is by Newman, No. 58, and is the same which has been in uninterrupted use since the establishment of the Observatory. Its tube is 0·530 inch in diameter. The cistern, which is of glass, is 37 feet above the mean sea-level at Colaba. The brass scale is moveable and terminates at the lower end in a point of ivory which is designed to be set at every observation so as just to meet its reflected image as seen in the mercury. The scale is primarily divided to 0·05 inch and by means of a vernier, 0·002 inch can be read off. To the moving vernier are attached two small brass plates one in front and one behind the tube. The setting of the instrument consists in raising or lowering the vernier until the lower edges of the brass plates appear just to cut tangentially the convex surface of the mercury in the barometer tube, the line of sight being so regulated in height as to coincide with the two edges. A thermometer with a cylindrical bulb, attached to the barometer, dips into the cistern and the readings of temperature derived from this were in use up to 1884. In an investigation described in the " Bombay Magnetical and Meteorological Observations, 1871 to 1878," it was discovered, however, that the readings of the thermometer, which was supposed to record the temperature of the mercurial column of the barometer, were considerably erroneous, and the use of the thermometer hence was discontinued from the beginning of 1885 and a thermometer by Murray and Heath, No. 2, divided to half degrees, with its bulb immersed in a column of mercury held in a short glass tube of nearly the same diameter as that of the barometer tube, was fixed to one side of the barometer. The readings of this thermometer have been used since 1885·0. The error of this attached thermometer varies by about a quarter of a degree within the annual range of the temperature of the barometer, and in adopting a mean error throughout, small pressure corrections of ± ·0003 have been disregarded.

The barometer was lifted down in 1866 and the mercury carefully run up to the top of the tube when it gave the sharp metallic click, that is indicative of a good vacuum. It was replaced carefully in its position, the tube, etc., being kept in proper adjustment to verticality. The barometer is of that particular class, a description of which occurs at page 56 of the " Report of the Committee of Physics of the Royal Society, 1840," and therefore the scale of the barometer is laid off from the zero point from an authentic standard.

Since 1841 when it was first mounted, there has been a gradual accumulation of scum on the surface of the mercury in the cistern, and the glass cistern became more and more opaque until the setting operation of the ivory zero point of the scale became a matter of difficulty and some uncertainty. For this reason the usual method, as referred to above, was changed on the 22nd May 1866. On that day the zero of the scale was set *once for all* and the setting screw was removed, and suitable corrections for capacity were thenceforward applied to the readings. These were taken from a table derived from the following formula :—

$$\text{Capacity correction} = \cdot 04321\ (h_o - 29\cdot 943)$$

'h_o represents the uncorrected reading'

data for the construction of which will be found in the " Bombay Magnetical and Meteorological Observations, 1865 to 1870." Introduction, pp. x, xi.

As at Bombay the fluctuation of the barometor reading from its mean value very rarely reaches ·4 inch, requiring a correction of ·017 inch, it seems very improbable that an error of so much even as ·001 inch occurs from any inaccuracy in the adopted values of the relative capacities of the tube and the cistern. Since the change was effected, the comparability of the observations for showing the finer variations has on this account throughout been much better secured.

The depression of mercury due to capillary action in a tube of 0·53 inch diameter being small, no correction is applied on this account.

On 30th July 1875 it was discovered that the vernier scale of the barometer was short by ·002 inch. To correct the errors arising from this fault instructions were issued to note the positions of coincidences at ·000 and ·050 of the vernier scale with the scale of the barometer and also the non-coincidences at the

above scales when the barometer reading was in exact half-tenths of an inch. It became then an easy matter to construct a table of corrections and to apply them for all positions of the vernier. These corrections have throughout been applied since.

The barometer is read daily including Sundays at 7^m after the full hours of observation—6, 10, 14, 16 and 22. Each reading is corrected by the application of the temperature correction reducing the temperature of the mercury column to 32° F. and that of the brass scale to 62° F. Another correction is applied to remove the error of discontinuity due to the change of thermometer. The first correction is made by means of Table II of the Report of the Committee of Physics of the Royal Society, the second by a constant reduction of the corrected pressure by ·002 inch. The considerations on which the latter correction is based, are as follow:—(1) the tabulations of the barograph are known to exhibit correctly the diurnal variations of barometric pressure, free from any sensible influence of variations of the temperature of that instrument; (2) the mean of twenty-four hourly barograph tabulations on any day is taken to correspond to the mean of the same twenty-four hourly pressures observed with Newman's barometer, No. 58, and corrected for the temperatures indicated by the old attached thermometer; (3) it does not follow that the mean of the tabulations for the five observation hours (6, 10, 14, 16 and 22) will then correspond exactly to the mean of the observed pressures for the same hours, because the old thermometer does not indicate precisely the actual variations of temperature of the mercurial column: in fact the latter mean pressure was, on the average of all the observation days of the year 1872, ·0008 inch in excess of the former mean pressure; (4) nevertheless the correspondence for the five observation hours was adopted as near enough to indentity with the correspondence for the twenty-four hours, and the recorded mean pressures of the year 1873 to 1884 will thus be ·0008 inch in excess of those of the years before 1873; (5) the old attached thermometer and the thermometer No. 2 by Murray and Heath were read together at the five observation hours throughout the year 1883, and the average excess of the former reading over the latter was found to be 0°·62; (6) hence to make the pressures reduced for the readings of Murray and Heath, No. 2, correspond to those reduced for the readings of the old thermometer the former pressures must be decreased by ·0027 × 0·62 = ·0017, or—as the pressures are read and calculated only to thousandths of an inch—by ·002 inch. Thus taking the period before 1873·0 as a standard period, the recorded annual mean pressures of the years 1873 to 1884 will be ·0008 inch too high, and those of 1885 and later years ·0005 inch [= — ·0020 + ·0017 + ·0008] too high.

Indirect comparisons of the barometer have beem made with the Kew standard by means of two mountain barometers by Negretti and Zambra, numbered 705 and 711, when they were both found (in July 1876) to read ·011 inch higher than the Observatory standard. In England, however, they had been found to read ·007 and ·006 respectively higher than the Kew standard. Hence the Observatory barometer reads on an average ·004 below the Kew standard. It happens that this is exactly the average amount by which the readings of Newman's barometer have been over reduced for temperature (*vide* Introduction to the Bombay Magnetical and Meteorological Observations, 1871 to 1878, paragraph 72).

Barograph.—The photographic barometer stands separate on two pillars in the magnetograph room. It was supplied through the Kew Committee of the British Association after being tested at the Kew Observatory, and is similar in construction to those adopted by the Meteorological Committee of the Royal Society for the seven observatories established by them in the United Kingdom in the year 1867. The barograph has been treated as an independent instrument in respect of the variation of pressure occurring in the course of a day, but only as an auxilliary to Newman's standard barometer, No. 58, in respect of the mean daily pressures. The excess of the mean of the five observations of the standard barometer made daily, over the mean of the corresponding five barograph tabulations has been used as a correction to the mean of the twenty-four hourly tabulations for the same day, a new correction being calculated for each day. A detailed account of the instrument and its particulars and adjustment is given in the " Bombay Magnetical and Meteorological Observations, 1871 to 1878, pages xvi to xlvi."

Thermometers—Standard Dry Bulb.—The thermometer is by Casella and marked No. 401: it is a mercurial thermometer, with a cylindrical bulb 3·7 inches long and about 0·37 inch in diameter. The stem is graduated and divided into degrees: the range is from 0° to 120°, measuring 12·36 inches; and the bulb is freely exposed to the air. It is placed in the cage of the thermograph shed about 5 inches from the thermometer which records photographically and is similarly exposed.

Standard Wet Bulb.—This is also a mercurial thermometer by Casella No. 402, and has a cylindrical bulb 3·7 inches long and 0·37 inch in diameter. The thermometer is graduated on its stem and is divided into degrees with a range from — 10° to + 120°, measuring 13·03 inches. The bulb is covered with muslin, and is kept moist by the capillary action of a bundle of fine cotton threads immersed in a small vessel of water near the thermometer bulb and passing loosely round the thermometer stem just over the bulb. The same vessel of water supplies the evaporating fluid to the photographic wet bulb placed about 3 inches distant.

The errors of the above standard thermometers have been carefully found and corrections duly applied. The errors were determined by a Kew standard (No. 368) thermometer in February and March 1875, at fourteen points ranging between 32° and 102°, and the readings were found to be within 0°·1 of the truth. On 20th December 1877 the errors of the freezing points were also tested, showing no noticeable change (*vide* paragraph 53, Table 10 of the Introduction to the Bombay Magnetical and Meteorological Observations, 1871 to 1878).

Photographic Dry Bulb and Wet Bulb.—The height of the bulbs of the thermometers of the thermograph above the ground is 10 feet. The cage is placed on one of the most exposed parts of the Observatory grounds and away from any building; it is, however, screened, as is also the thermograph room in which the recording apparatus is placed, by a roomy shed with a planked roof which is everywhere 2 feet above the roofs of the cage and room: the sides of the shed are of the louvre construction, with double sheets of zinc enclosing a thick layer of felt substituted for the wooden laths, and with a vertical distance from lath to lath of one foot: the lowermost two feet of the sides are guarded simply by horizontal iron rods: the roof of the shed is covered with thick felt and then with strong canvas, and the whole of the exterior—sides and roof—is painted or limewashed white.

Ground Thermometers.—Thermometers with their bulbs at the respective depths below the surface of the ground of 1, 9, 20, 60 and 132 inches are regularly observed, the two former five times a day and the three latter once a day at 14 hours. They are all by Newman, of London, and are divided on brass scales, and the value of one division, approximate range of part of scale exposed above ground, and lengths of that part and of one average degree are shown below for each thermometer:—

Depth of Bulb.	Divided to.	Approximate Range of exposed part of Scale.	Length of that Range.	Average length of 1°.
Inch.			Inches.	Inch.
1	1°	30° to 145°	8·19	·071
9	0°·2	70° to 115°	5·20	·116
20	1°	35° to 160°	6·73	·054
60	1°	35° to 160°	6·81	·054
132	1°	50° to 140°	6·44	·072

The 1-inch and 9-inch thermometers are on flat brass scale frames, which lie against wooden posts in the ground, and they have their bulbs in contact with the loose red earth which fills the holes in which they are placed; the 20-inch, 60-inch, and 132-inch thermometers have their lower parts enclosed in brass tubes with ends curving off to a point, and the upper parts are in wooden box frames to which the brass scales are fixed. The reason why only one observation is made daily of the three deeper thermometers is that it had been found by hourly observations in 1849, 1850 and 1851 that no appreciable diurnal variation of temperature reached the depth of 20 inches.

The errors of graduations of the ground thermometers are unknown.

Ground thermometers Nos. 69570 and 69571 by Casella were put in the rain gauge enclosure with their bulbs at the depth of 1 inch and 8 inches below the surface respectively in June 1902. The surface thermometer 1 inch deep was replaced by thermometer No. 122 by Newman, on the 17th April 1909. The error of the thermometer is not determined.

Robinson-Beckley Anemograph.—From the establishment of the Observatory till December 1865 a rough pressure anemometer was in use. This was replaced by a small anemometer by Robinson which remained in use up to June 1867. From the beginning of the month of June 1867 was brought into use an anemograph of the kind designed by Robinson, with improvements by Robert Beckley, and it remains in action to this day. It was made by Mr. R. W. Munro, and was supplied through the Kew Committee of the British Association, after being tested at the Kew Observatory. In this instrument the arrangements for the registration both of movement and direction of the wind are mounted on one shaft, and the registrations are made on a single sheet of paper, which is changed daily. The essential part of the apparatus for measuring the movement is a vertical spindle, to which cross arms are attached at the top, carrying four hemispherical cups of copper. The cups are attached to their several arms, so that, looking from the central axis, their convex sides are seen on the right hand, and the wind, acting with greater effect upon the concave than on the convex sides of the cups, causes the system to rotate in a right-handed direction. It is the number of these rotations, 140 of which are reckoned to a

mile of movement of the wind, that tells us how fast the wind has been blowing; and the number is reduced, by means of wheelwork, 7,000 times before reaching a small cylinder carrying a continuous brass spiral projecting edge which serves as a pencil to trace the movement of one complete revolution on the registering paper. The paper is metallic of the kind used for pocket-books, and is wrapped round a brass cylinder, which is kept rotating by clockwork, and as the paper passes under the spiral pencil which presses slightly upon it, a black trace of the movement is received upon it. The wind vane, which consists of a pair of windmill vanes with connecting spindle having an endless screw in the middle and gearing into a fixed horizontal toothed wheel, is attached to a tube that surrounds the lower part of the vertical movement spindle; to the bottom of the tube is fixed a toothed wheel, which, in communication with other such wheels, conveys the motion of the vane *unchanged* to a small cylinder with a spiral pencil, which traces the changes of direction on the register. The whole arrangement is so devised as to have both the velocity and direction traced on parallel strips or bands on one and the same sheet of paper which is changed daily at 10 hours. The heavy parts of the instrument—the direction vane and appendages, and two long brass tubes which connect the instrument proper with the recording apparatus—are supported on friction balls which run in grooves partially filled with oil, thus reducing the friction to a minimum. The instrument is erected on the old Time Ball Tower, at a height of 53 feet above the ground, and 95 feet above the mean sea level, over a platform 12 feet in diameter, which is designed to give ready access to the instrument, and to protect it from irregular currents of wind, glancing from the convex surface of the dome. It is supported outside by a fixed cast-iron standard, to which is attached, at the top, the toothed wheel into which the endless screw of the spindle connecting the wind mill vanes gears. The centres of each pair of opposite hemispherical cups are four feet apart, and three and a half feet above the platform, and the diameter of the cups is nine inches. The diameter of the vanes is 15 inches, and the breadth of the fans four inches. The register form is printed in red, with lines dividing its length into hour spaces; and its breadth, on the movement side, into five spaces, each representing 10 miles of movement of the wind, and numbered from 0 to 50 miles; and on the direction side, into spaces corresponding to $11\frac{1}{4}$ degrees on each side of the 16 principal directions N.N.E., N.E., etc. . . . . N.N.W., N., which spaces are numbered consecutively 1, 2, etc. . . . . 15, 16.*

Tabulation of Anemograms.—Numerical tabulations have been made of the movement and direction of the wind during the interval between every two successive hours in the following manner:—the number of miles indicated at the point where the velocity trace cuts a horizontal hour-line being read for two successive hours, the excess of the latter over the former reading (adding 50 if the trace has passed over from left to right of the form) gives the movement for the interval; and the number of the space in which the direction trace lies during the interval is entered as representing the direction. The estimations of movement are made only to the nearest full mile. Should the direction trace not lie all in one space during the whole interval of an hour, then if the change of direction exceed 90° or eight points, the whole observation for that hourly interval is rejected; but if it lie within that limit, the direction is estimated—by an inspection of the movement and direction traces together—whence the aggregate flow of air was the greatest and this direction is adopted for the full hour. On the average of the years 1871 to 1910, out of 8,754 hours during which the instrument was in action, 2 only had to be rejected because the direction of the wind varied more than eight points within the hour.

Method of reduction.—Hitherto we have had to speak of phenomena liable only to simple increase and decrease of value and not subject to any change of quality. Such phenomena being properly and completely evaluated by simple numbers, we may apply to the numbers any arithmetical operations, such as averaging, and infer from the results of those operations corresponding properties of the phenomena. But we have now come to a phenomenon which requires two numbers to express it, one representing its amount and the other a varying quality; the first referring to the velocity, and the second to the direction of the wind. Here we may no longer apply arithmetical processes directly and indiscriminately to the observed numbers: but, the subject being one of motion, we must treat them according to the principles of the science of motion. These principles tell us that the motions may be equally well expressed by means of two varying numbers referring to two invariable qualities, as by a varying number referring to a varying quality; and they show us how to obtain either form of expression from the other. The invariable qualities chosen in the present case are the directions north and east, the the actual wind blowing in each hour being resolved into north and east components, which may be regarded separately as the velocity of the wind in the invariable direction north or south, and the velocity of the wind in the invariable direction east or west. The resolutions are effected by means of the formulæ—

$$\text{North component of velocity of wind} = m \cos (n \times 22\tfrac{1}{2}^\circ),$$
$$\text{East component of velocity of wind} = m \sin (n \times 22\tfrac{1}{2}^\circ),$$

* A more detailed account of the Colába anemograph will be found in the "Bombay Magnetical and Meteorological Observations, 1865 to 1870," Appendix I, page 199.

where m is the movement observed, and n the number of the direction space under which the wind of the hourly interval is classed. When the sign of either of these calculated quantities is negative, it implies that the wind blows from the opposite direction, *i. e.*, from south or west. T' calculations are readily made by means of tables to the nearest tenth of a mile of velocity per hour. Having now substituted the two equivalent winds for the real one, we may with propriety proceed to combine together numbers of observations by algebraical addition and averaging, treating the north and east components of the wind each by themselves. The averages thus found from the observations of any given period will represent the velocity with which the wind must blow from the northward (from the southward if the sign of the average be negative) continuously for the whole period, in order that the total movement of the wind from that direction may be the same as the total movement from the same direction produced by the winds which actually blow, and similarly the velocity with which it must blow continuously from the eastward (westward if the sign of the average be negative).

No corrections have been applied to the anemograph tabulations on account of friction.

The correct formula for deriving velocity in miles per hour from wind pressure in lbs. per square foot is $P = \cdot 003V^2$, and in the computations involved, the actual velocity of the wind as derived from the run of the cups, is obtained by the use of factor 3 originally suggested by Robinson. All wind figures therefore published up to the year 1910, have been derived by this factor. As a result however of a prolonged inquiry this factor has been found to be much too large and its correct value has been eventually fixed at 2·2. All velocities in future hence will be derived from the new factor, and the whole data of previous years up to 1910 which have thus been overestimated will have to be reduced by ·73 in order to secure true velocities comparable with future wind data.

In October 1907 the old anemograph which had been in action at the observatory from the year 1867, was replaced by a new one by R. W. Munro & Co. The comparison of the record of this old instrument with that of Dines's from 1898 to 1907, showed that on the average the factor stood at 2·11. Similar comparison from 1908 to 1912 between Dines's and the new anemograph records, showed the factor to be 1·98. Thus while the comparison showed that the two anemographs were nearly in close agreement, the new instrument seemed to record slightly larger velocity by about 6 per cent. As however the conditions of comparison with the Dines's Anemometer could not be accepted as absolutely identical in the two series, no refinement in the results by way of correction, at present seems advisable. *Vide* also paragraph below and tables in Appendix B.

Dines's Anemometer.—This instrument by R. W. Munro of London was received in January 1897 and fitted up in February on the same tower on which the Robinson-Beckley Anemograph is fixed, and it has been in action since then. The fixture is so arranged that the one instrument does not in any way interfere with the action of the other. The anemograph is fixed about 3 feet high centrally on a flat platform on the top of the old Time Ball Tower and the pressure tube anemometer is located on the edge of this platform on the north-east side—the distance between the two instruments being the radius of the platform—about 6 feet. The vane of the latter is placed about 6 feet above the platform, so that it is about 3 feet above the level of the cups of the anemograph. The tower is 53 feet high from the ground and 95 feet above mean sea-level and, looking at the exposed position of the tower, the two instruments have been placed in as identically analogous conditions as was possible under the circumstances. The instrument consists of two main parts, the "head" and the "recording apparatus." The "head," which is fixed on the top platform, is composed of two parts, the moveable and the fixed. The former consists of a hollow tube (1 inch in diameter) to which is attached at right angles at the top and opening into it, another similar tube open at one end but closed at the other where the vane is attached. The fixed part consists of three concentric tubes forming two annular spaces. The central tube, which stands higher than the middle tube by about ·7 inch, is supported a little below the top of the middle tube by two radial pieces and being closed at the top it serves as a support for the pivot in the moveable part which just fits but turns freely round the middle concentric tube as axis. The moveable part thus opens into the inner annular space. The outermost concentric tube, which is considerably shorter in length than the middle one, has some fine perforations bored into the sides, the annular space between it and the middle tube being closed at the top. As the wind vane attached to the moveable tube keeps the latter always facing the wind, the action of the wind in the inner annular space is compressive as the wind blows directly into it, while in the outer annular space the air as it rushes past the small perforations produces a suction effect resulting in decrease of pressure.

The recording apparatus consists of a large cylindrical vessel almost airtight, filled with water to a certain level. In this is introduced a specially constructed hollow copper float, open from below and weighing about 66·46 ounces, which rises or falls in response to the change of pressure of the air in the cylinder above the float and of the air within the float, caused by the action of the wind which is

communicated from the " head " to the recording apparatus by two flexible tubings (40 feet long) led by gentle curves from the former to the latter. The tube which is attached to the suction part of the " head " transmitting decrease of pressure, enters the vessel from the top lid, the other leading from the pressure part transmitting increase of pressure, opens out inside the float. As the action of the wind in the former space is to reduce the pressure the float becomes more buoyant and rises, while the action of the wind inside the float causes increase of pressure, and thus co-operates in raising the float. The float ends in a narrow smooth rod which, passing through an almost air-tight vulcanite collar in the top lid, carries a small cup with attachment of pen, etc. On the top of the lid, a little removed from the recording pen, is fixed a small cylinder driven with clock-work, which carries the paper chart. The pen is so attached as just to fall on this paper by its own weight to avoid unnecessary friction between the two. When the float is put down, the height of the pen is adjustible so as to allow it just to reach the zero line on the chart. The float under ordinary circumstances when the communication between it and the head is cut off, rises through a certain distance, carrying the pen with it, which is again brought carefully back just to the zero line by the addition of small weights in the cup. The instrument is now ready for recording changes of pressure when communication is opened between it and the head. The peculiar construction of the float makes the upward force measured in units of velocity to vary uniformly with the ordinate : thus a velocity of 10 miles gives an ordinate of ·6 inch on the chart, that of 20 miles 1·2 inches, and so on.

The comparison of the instrument with a U tube pressure gauge locally improvised, showed on the result of a series of experiments, that the relation between W—the difference in level of the water in inches in the two arms of the U tube, which is a measure of the pressure of wind—and V the velocity of the wind in miles per hour as indicated in the Colaba Dines's chart, was $W = \cdot00078V^2$ instead of $W = \cdot00073V^2$ which should have been the correct relation if the instrument was in order and in perfect adjustment. The result hence showed that the Colaba Dines's instrument indicates only about 96 per cent. of the true velocity. This defect of 4 per cent. is appreciably large but considering that the magnitude of the probable errors of observations in the experiments, was not negligible and that ordinarily the velocity does not exceed 20 miles per hour, the graduations on the chart of the Dines's recorder may be accepted as indicating correct velocities for all practical purposes, except for high winds for which a small correction seems necessary.

Tabulation of the Anemograms.—Numerical tabulations are made in a table in which the days of the month are marked in numerical order in the first vertical column and the hours of the day at the head of the succeeding 24 columns where the hourly averages are entered. The twenty-sixth column gives the sum and the next column the mean hourly velocity for the day. At the bottom of the table columns are provided for the sums, means and variation. The determination of the hourly average is generally done by inspection, the hour when necessary for accuracy being sub-divided into convenient divisions. The average of these divisions is taken as the mean hourly velocity, due weight being given to the time of each sub-division. In very complicated movements and doubtful cases the planimeter is used to check the inspection results.

Four photolithographic copies of the velocity chart shown in Vol. XXXVI of 1897 at page x represent different but typical characters of the wind. The first shows the character of the wind during a thunderstorm day, the second during a somewhat gusty day, the third during a somewhat stormy day, and the fourth during a typical normal day.

Rain gauges.—Newman's rain gauge, which has been in use since 1845, is made of copper and exposes for the collection of rain-drops a circular surface of an average diameter of 12·035 inches, forming the top of a funnel, which opens into a cylindrical vessel below, having a diameter of 5·732 inches : a float of slightly less diameter, so as to rise and fall freely, rests upon the water in this vessel and having a wholly convex external surface, it allows the rain as it falls to flow off and raise the level of the water and with it the float. To the middle of the float is fixed a wooden rod, graduated with divisions, each of which represents ·05 inch of rain ; and the readings of this scale, which are easily estimated to fifths of a division, are made where it is cut by the upper edge of a light brass rod placed horizontally across the mouth of the funnel, but half an inch below the edge of the exposed circular surface ; the scale passes through a hole in the middle of the horizontal rod, and is thus kept always in a vertical position. The range of the scale is from 0 to 4·00 inches, and the readings of the scale are entered in the meteorological register and the differences taken for every interval between successive observations : the rain is allowed to accumulate in the vessel generally till the reading is somewhere above 2·00 inches, when the water is let out, by means of a brass cock at the bottom, till the reading comes down to 0·00 inch. This latter reading is always maintained during intervals of dry weather—when, from evaporation, the scale would otherwise fall lower—by pouring small quantities of water into the gauge ; the reason of this is obvious, as, if some water were not always retained, the float would sometimes rest on the bottom of the vessel and so cease to perform its function of rising equally for equal increments of rain. The scale on the wooden rod,

was graduated so as to agree approximately with the data—the diameters of the gauge and measuring vessel—given above. The error of the scale according to which the rod was graduated was less than a thousandth of the whole.

Newman's gauge stands on a large rectangular block of stone, in a position intermediate between the Entrance Gate, the Magnetical Observatory, and the Thermograph Shed, where the altitude of the highest neighbouring object, as seen from the gauge, is about 30°. It is supported by three feet, which are embedded with lead in holes cut in the stone block, and its circular mouth is at a height of $4\frac{1}{2}$ feet above the ground and about 35 feet above the mean sea level.

Photographic rain gauge.—A description of this instrument also will be found in the Introduction to the "Bombay Magnetical and Meteorological Observations, 1871 to 1878," page xlvi. In the years 1906 to 1910 the syphon discharges, were received in glass bottles and measured by means of graduated glass tube and a marked glass bottle holding exactly half an inch of rain.

It was mentioned in former years that the occurrence of the discharging action of the syphon was occasionally liable to some uncertainty—the water at times trickling over the bend of the tube in considerable quantities before the proper discharge commenced. After trial of many modifications in the form of the syphon one was at last hit upon, which is free from this fault, and by which the tube is, moreover, kept in a satisfactorily clean condition from beginning to end of the monsoon, simply by the washing that takes place in the ordinary automatic discharges. Since November 1884, when the new syphon was brought into use, the discharges have been regular and have failed on very rare occasions. To prevent birds alighting upon the funnel, and choking it with their droppings, a conical arrangement of pointed iron spikes surrounding the funnel was attached in 1882, and was found to be effective.

Constants for converting syphon discharges into inches of rainfall.—As the surface exposed by the rain gauge funnel is 50·286 square inches, an inch of rain contains 823·955 cubic centimeters. With the aid of a cubic centimeter measure accurate to a thousandth of 100 cubic centimeters, 412 cubic centimeters of water were poured into a narrow-necked glass bottle and a file mark was made on the neck at the level up to which the water rose. A glass tube was also graduated by means of the same cubic centimeter measure, so as to read off thousandths of an inch of rain with ease. The bottle is filled as often as there are discharges from the rain gauge syphon, and the final excess or defect is measured with the graduated tube. The use of the bottle began on 31st July 1879 and continued till the 26th July 1884, when it was accidentally broken. An exact copy of it, which had been prepared beforehand, was then substituted, for the original bottle and is still in use.

Measurement and distribution of syphon discharges.—The discharges are measured daily, or oftener during heavy rainfall, and are, of course, always of an integral number. For each measurement the average value of a discharge is attributed to each of the intervals of time, shown on the rain curve, between pairs of successive discharges; and it remains then only to distribute this quantity, for each filling of the receiving vessel, by means of tabulations of the ordinates of the rain curve. When, as is often the case, the rate of fall of the rain at the time of a discharge exceeds $1\frac{1}{8}$ inch per hour, it is necessary to allow for the rain that enters the receiving vessel during the known time (16 seconds) of discharge, the allowance depending on the rate of rainfall, which is easily estimated for this purpose by noting, with the aid of an appropriate paper scale, the inclination of the rain curve immediately after the time of discharge. The aggregate of such allowances is deducted from a day's (or other) measurement before dividing the quantity equally amongst the several intervals.

Determination of scale of rainfall ordinates.—The factor for converting ordinates of the rainfall curve into inches of rainfall was found by experiments in which a determined weight or volume of distilled water was poured into the receiving vessel, and the change of length of the ordinate produced thereby was carefully measured. In an experiment made on 19th May 1906, the quantity of water poured into the vessel was equivalent to ·480 inch of rain and the change of length in the ordinate ·480 of a true inch; whence the factor is found to be 1·000, which is applicable to all the rainfall registrations of the year 1906. In similar experiments made on the 3rd June 1907, 10th June 1908, 25th May 1909 and 31st May 1910, the factors so determined were 1·026, 1·039, 1·047 and 1·002 respectively which have however not been made applicable to the rainfall registration of the respective periods as if we adopt, as was done, the co-efficient unity (1·000) the greatest error possible in the registration would amount to ·02 inch for the years 1908 and 1909. But this amount increases gradually to its maximum value ·02 as the ordinate increases from zero to ·50 inch and would be counterbalanced at one stroke when the discharge occurs.

The tabulations are made with the true-inch scale of the thermograph tabulating instrument, using the white line as datum; and the reading of this datum that corresponds to the reading ·000 of the rain curve, when the receiving vessel has just been discharged, is re-determined whenever the adjustment of the recording apparatus is disturbed. For this purpose an average is taken of a number of measurements for all of which the rain is following very slowly at the time of the syphon's coming into action and for a

short time longer. It is necessary to select such occasions, because at times of heavy rainfall the curve has risen sensibly before the light has had time to make a distinct impression on the sensitive paper The mode of tabulating is (1) to set the scale on the constant reading corresponding to the white line, (2) to move the sliding piece until the index is set upon the white line, and (3) to move the sliding bar till the index is set upon the curve, and then read the scale. By setting the paper carefully, so that a considerable length of the white line is practically paralled to the lateral motion of the frame, the repetition of the first two operations of tabulation is avoided until many hourly ordinates have been read; and then a new setting of the paper is made for another stretch of the white line.

(*b*) Seismological Instruments at Colaba, 1906 to 1910.

Milne's Seismograph.—This instrument, No. 12, supplied by R. W. Munro of London, was mounted in September 1898, in the small building formerly used for electrostatic observations which was materially altered in order to suit the requirements of a seismograph installation. It consists of a single room 10 ft. sq. with a double folding door on the south side and a single large window on the north side. It is 14 feet high up to the eaves with a gable roof, and is well ventilated by adjustable openings made in the walls near the ground and in the gable ends at the top. The pier is placed in the middle of the room. Its foundations run $5\frac{1}{2}$ ft. below the flooring, at which depth a huge basalt boulder was struck, over which was laid a bed of concrete 5 ft. sq. and 2 ft. deep. This bed supports a mass of rubble masonry 4 ft. sq. and $1\frac{1}{2}$ ft. deep, which finally carries a brick pillar $1\frac{1}{2}$ ft. sq. and $5\frac{1}{2}$ ft. high. The pillar is plastered with cement and carries a $\frac{1}{2}$-inch marble slab at the top. The special feature of this horizontal pendulum seismograph is a boom about 37 inches long consisting of a light aluminium rod supported at two places. One end abuts against an adjustable pivot at the base of the "vertical," and at a distance of about 4·3 inches, from this end it is held in horizontal position by a platinum wire to which a piece of unspun silk is attached passes over the "vertical," with suitable adjustable screws at the top. This short piece of unspun silk is attached to the platinum wire at the top to secure free motion of the boom, and to steady the movement of the boom, which is very light, as also to obtain the steady mass a balance weight is suspended on a stirrup fixed on the boom at about 4 inches, from the pivot end. The boom carries at the outer end a rectangular plate with a short slit cut parallel to the boom through which light from a lamp is reflected by a suitable mirror on to the film in the recording box which has a corresponding slit at right angles to the former, thus allowing only a point of light to affect the film. The distance of this from the vertical is 37·3 inches.

The base of the "vertical" is formed by an iron triangular bed plate with three levelling foot-screws. One of the screws is finely divided with a pitch of 0·5 mm. which serves for final adjustment. The bed plate is so placed on the pillar that two screws (including the adjustment foot-screw) are located due E.—W., while the third points to North. The distance between the first two is exactly 150 mm. and therefore a complete turn of the adjusting screw raises or lowers that end by 0·5 mm. or through an angle $= \tan^{-1}\frac{1}{300}$. A lever attached to this screw with a scale enables it to be turned through 1°, 2°, or any other fraction of a complete turn. This, with the usual sensibility of about 5·0 mm. for a 1° turn of the screw, allows of the determination of the tilt up to 0·2″ of arc measured by a deflection of 0·5 mm. on the seismogram. The clock-work drives a roller, which pressing slightly against another friction roller allows of a strip of sensitive film being carried between them at a uniform rate of about 59 mm. per hour. A small watch placed on the recording box, with its long minute hand carrying a small plate which extends to about 11 mm. over one end of the slit of the recording box, produces an eclipse every hour at 30 minutes past the hour cutting off the light at that end of the slit. By carefully watching the beginning and end of the eclipse by means of a chronometer, the exact time of the centre line of the white mark left on the sensitive film by the eclipse can be easily read off on the seismogram. Air tremors are frequent and troublesome at night especially during the winter months. But the precaution of regulating the temperature and draught in the room by heating the room by means of lamps or stoves initially suggested by this Observatory after a long series of experiments as a successful method of eliminating this form of disturbances, has proved fairly effective, and the traces are nearly always free from this source of vitiation.

*The Colába Seismographs.**—The Seismographs designed and constructed locally are installed in the building formerly known as the small magnetic room altered to suit the requirements of the installation. They are mounted on an isolated pillar $1\frac{1}{2}$ ft. square and 7 ft. high with its foundation on a rock. No. 1 is oriented N.—S. so as to record E.—W. movements, while No. 2 is oriented E.—W. to record. N.—S. movements.

The essential parts of the two horizontal pendulums as finally devised consist of metal boom about 3 ft. long, one end of which carries a steel point abutting against a shallow cup of agate fixed to a heavy

* Note.—The recording arrangements of these instruments have for the purposes of investigation, often and again been altered from pen and ink records to charts on smoked paper with style, suitably modified in each case to suit the requirements of the investigations.

screw in the pillar at a point about 6 ft. below its top. The boom at its other end carries a heavy weight (70 lbs.). The pillar at the top carries a thick iron slab in which are firmly bolted the slow motion adjustment screws, the steel bearings and the finely balanced pivot which receives the tie from the boom. The weight at the other end of the boom in No. 1 seismograph carries a moveable polished metal pin which receives a close but just fitting fork fixed at the short end of a finely balanced light lever which allows of the magnification of the movement up to 1 to 12. The length of the longer arm is 2·5 ft. and the shorter arm is made adjustable to give a varying magnification from 1 to 7 to 1 to 12. The longer arm at its other end carries an agate bearing to receive a very small balanced pen* on a knife edge. As eventually designed the magnifying lever is omitted and recording arrangement is simplified as noted below for No. 2 seismograph. The record is taken in glycerine ink with a crow quill on paper round a cylinder (5 inches in diameter) running on a helical axis in connection with clock-work. The cylinder while completing one revolution in one hour advances $\frac{1}{10}$ inch, which enables a continuous record being taken for 24 hours. With a suitable electromagnet and connection with an electrical clock the time is recorded on the paper every minute, which with the regular motion of the cylinder and the clock has been found to give sufficiently accurate time for all practical purposes.

The instrument is brought into adjustment by the lower pivot screw which moves in and out enabling the period to be regulated, while the adjustment screw at the top of the pillar, giving the slow motion to the point of attachment of the tie from the boom, allows the zero to be properly adjusted. The vertical distance between the points of attachment of the horizontal pendulum is 75 inches, and the distance between two consecutive threads of the adjustment screw traversed by a *complete* turn of the screw is $\frac{1}{16}$ inch from which the angle of the corresponding tilt is obtained by calculation. After suitable adjustment of the recording lever, pen, etc., the displacement of the pen corresponding to a tilt due to a complete turn or a fraction of a turn of the screw gives the sensibility of the instruments. For accurate work, with delicate instruments of this type which involve considerable friction, it was found advisable *every* day, at the time of change of paper, to measure the sensibility to tilt and to ascertain that it remained practically constant. As the instrument has been constructed locally, it was thought undesirable to use the upper adjustment screw oftener than was absolutely necessary, its use being restricted only to the correction of zero. The following device, therefore, is adopted. The pillar is provided with a brass bar oriented E.—W., 1·5 and 4 inches in section and about 5 feet long, which is embedded in the pillar passing horizontally through it and about a foot below the top. A similar bar is placed at right angles to the former and oriented N.—S. The arms of these two bars which project $1\frac{3}{4}$ feet from the face of the pillar are daily used for supporting, for a few seconds, a weight of 7 lbs. This weight placed at a certain distance on the arms produces a definite tilt in the pillar in the direction of the weight. This has been very accurately ascertained periodically from a series of careful experiments and equals 0·5 second in arc. The weight of 7 lbs. is therefore used to produce this known tilt from which the displacement of the pen on the paper enables the sensibility of the instrument to be effectually controlled.

In the No. 2 seismograph, while all other parts are similar, the writing arrangement does not include the magnifying lever. Instead a long thin glass rod 6 feet long is fixed to the boom with a device to allow for the adjustment of zero, etc. The other end carries, as in No. 1, the balanced pen which gives the record in ink.

Seismograph for recording vertical movements.—This instrument was mounted in a specially constructed small building to keep the variation of temperature as small as possible. It has finally been removed to the underground magnetograph room. The instrument consists of a finely balanced lever with unequal masses at almost proportionate distances from the fulcrum. Instead of attaching the end of this balance directly to an Ayrton Perry spring, it is made to carry on one of its arms an agate plane supporting the knife edge at one end of a small lever to the other weighted end of which is attached the fine Ayrton Perry spring fixed at top to a suitable support of the instrument which thus remains under a small tension. A mirror is attached to the spring and the beam of light which falls upon the mirror is properly focussed on the sensitized paper in the recording box. The large balance is adjustable to a period of 15 to 40 seconds, the free motion of which is not interfered with by the attachment of the Ayrton Perry spring. To improve the record of this instrument several modifications in the details of seismograph were made one of which adopted eventually was the removal of the auxiliary balance and the attachment of a fine steel wire spring some four inches long directly between the Ayrton Perry spring and the heavier end of the main balance, but without much success, as the friction in the balance pivots and attachment device was found to be much too great and fatal to the registration of minute movements. The instrument hence while efficient enough to record traces of near quakes is not sensitive enough to pick up the small movements of distant earthquakes.

* The pressure exercised by the pen on the paper with the period usually allowed, varies from ·05 of a grain at the commencement of the record to about ·02 at the end of the record.

The same paper takes another record to register the actual tilt of the ground. A lead tube 3·8 inches in diameter is laid E.W. in the floor of the magnetograph room. The horizontal length of the tube is 22 feet and the ends are turned up vertically through properly constructed brick pillars 3 feet high at each end. The end of the tube which comes through the pillar at the east end is protected by a loosely fitting cover, while the west end of the tube opens just under the base plate of the recording instrument which is placed on the west pillar. The tube is filled with kerosine oil and thus practically forms a geodynamic level. A float just heavy enough to sink in the oil is properly adjusted and suspended from the support of the instrument by a very delicate Ayrton Perry spring kept under tension by the residual weight of the immersed float equivalent to produce a rotation of about 180° of the mirror. From the area of the tube and its length the tilt can be ascertained experimentally by the addition of a known quantity of oil which causes a certain displacement of the beam of light on the paper and is constant for the existing factors for a float of a particular diameter. The present arrangement of float, etc., provides for a sensibility equivalent to a tilt of 0·4″ or a vertical change in 'h' of ·0005 inch for one millimeter, and the instrument is sensitive enough to pick up movements of even distant earthquakes. Time marks are secured on the traces by a small chronometer watch in electrical connection with an electromagnet which by means of an occulting fan, cuts off light for about a minute and a quarter every hour. The scale as in Milne's seismograms is about 59 millimeters long for one hour and does not admit of greater accuracy in the determination of time than of 0·1 minute.

The Omori Ewing Seismograph.—This horizontal pendulum seismograph was received in November 1907 and has been installed, oriented E-W, on an isolated pillar in a small wooden building to the east of the Magnetometer office. The essential parts of the instrument are in the main as described in the Colaba Seismographs. The cast iron base stand which is about 4 feet high, with a heavy ample base, supports a pendulum mass of about 75 lbs. by steel wires from the top. The length of the boom from the pivot to the centre of gravity of the steady mass is 2·0 feet, and the distance of this pivot from the point of attachment of the wires at the top of the stand is 3·42 feet. A fork and lever attachment in connection with the mass allows the movements to be magnified from 20 to 40 times. The lower magnification (20) has been used for the records during the period. The traces are taken on a smoked paper with a style, and a suitable device for time marks every minute is provided by an electro-magnet in electric connection with a standard clock which simultaneously marks time on this and on the Colaba Seismograms.

(*c*) Magnetical Instruments at Colaba, 1906 to 1910.

Kew Unifilar Magnetometer.—Magnetic work was stopped at Colaba from the 1st April 1906, and since then observations of declination only, taken once a month about the 15th, have been continued. A description of the standard instrument No. 23 by Elliott Brothers, with which the observations of horizontal intensity from the 1st January to the 31st March 1906 and of Declination for the period 1906 to 1910 have been taken, will be found on pages xxxiii to liii of the Introduction to the "Bombay Magnetical and Meteorological Observations, 1865—1870"; the description includes also an account of the situation of the instrument, of the nature and routine of the observations taken with it—with examples of observation and computation forms filled up with the figures of actual observations—and of the formulæ of reduction and the constants involved in them.

Kew Dip Circles.—A description of the instrument, and of the mode of using it, is also given in the Introduction to the "Bombay Magnetical and Meteorological Observations, 1865—1870," pages lvi to lix, and the following additional or corrective remarks will make it applicable to the observations from 1st January to 31st March 1906:—

(1) The place of observation has been the top room of the Electrometer Tower, the dip circle having been placed on the same pillar on which the Kew unifilar magnetometer is placed in the regular observations of absolute horizontal force and absolute declination. The reading of the azimuth circle of instrument No. 49 adopted for this place has invariably been 63° 31′, andof the new instrument No. 110, by Dover Charlton, is 59° 36′, determined in February 1897. An observation for the verification of the former reading was made on the 22nd February 1881.

(2) The dip needles used during the period 1st January to 31st March 1906 with the old instrument have been as follow:—

For the regular observations—	For supplementary observations—
Dover Charlton No. 1	Dover No. 3
,, ,, No. 2	,, No. 4

(2*a*) And with the new instrument intended for survey work the needles used were Dover Nos. 3 and 4.

(3) The final cleaning of the axles of the needles has throughout been made with a clean silk cloth.

(*d*) Magnetical Instruments at Alibag, 1906 to 1910.

Magnetometers.—There are two magnetometers observed regularly. Magnetometer No. 7 by Cooke and Sons is of the usual ordinary pattern of Kew instruments, modified by several improvements. The telescope is about 8″ in focal length with two eye-pieces of low and high power. It carries a level on the top, and a vertical motion is provided to the axis of the telescope which allows of its being used roughly as a Theodolite. The diaphragm instead of carrying the usual cross lines is fitted with an optically pure glass on which are engraved two scales vertically and horizontally. The magnet is carried in a light aluminium stirrup and a cross is engraved on a glass at the S. end, the N. end carrying the lens. The magnet is suspended by a phosphor-bronze ribbon, instead of the usual silk fibres, by means of clip-chucks. A finely divided plummet is provided, the scale on which is read with the telescope through a suitable collimating lens brought in position for the time in front of the telescope object glass. This arrangement provides for more or less perfect elimination of the torsion allowing of a more accurate determination of its residual error than in the Kew type instruments. Instead of a mirror being attached to the deflection magnet as in the Kew pattern instruments, the magnet is carried in a stirrup which supports below the magnet and parallel to it a collimator aluminium tube with a lens and an engraved piece of glass as in the vibration magnet. The bar of the instrument is not divided, but a number of holes is accurately bored in its upper surface at distances 22·5, 26·25, 30, 35 and 40 centimeters from the centre of the instrument. The carrier for the deflecting magnet which rides on the bar, has a small metal plug fixed centrally in the base fitting closely the holes in the bar and the setting of the magnet hence at the different distances does not require any adjustment whatever.

The other instrument is No. 3 by the Cambridge Scientific Instrument Company and is of the usual Kew pattern.

Instrument No. 7 is observed on the 2nd floor of the tower of the magnetic office, while instrument No. 3 is observed on the 1st floor, each instrument being permanently allowed to stand on its own pillar on the respective floors. The result of a long series of comparison of the instruments shows that after the application of the full distribution correction No. 7 reads 2γ higher, while No. 3 1γ lower, than the Colaba Standard Magnetometer by Elliott.

The entries in columns 1 to 17 and 19 of the Tables of Observations of Absolute Horizontal Force are copied directly from the computation form; column 18 is given to show the degree of accordance existing in the determinations of H from deflections with the deflecting magnet at the respective distances 22·5 and 30 cms. in case of instrument No. 7, and 23 and 30 cms. in case of instrument No. 3.

The instrumental constants adopted in the reductions are as follow :—

Magnetometer No. 7.

Induction co-efficient $\mu = 7{\cdot}82$ or $\log \mu = 0{\cdot}89321$. $\log \pi^2 K = 3{\cdot}39931$ and $3{\cdot}39981$ at 0° C. and 50° C. respectively.

Auxiliary inertia cylinder : length = 9·288 cms.
diameter = 1·017 ,,
mass = 63·822 grammes.

The temperature correction for decrease in the moment of the collimator magnet is equal to $\cdot00396(t-0°) + \cdot0000088(t-0°)^2$, t representing the temperature in centigrade scale at which the observation is made.

In the graduations of the deflection bar the true distances at 0° C. corrected for bending, corresponding to apparent distances 22·5, 26·25, 30, 35, and 40 cms., are respectively 22·493, 26·242, 29·994, 34·991 and 39·983 cms.

The angular value of one scale division in the telescope = 1′·363.

The adopted values of the distribution correction are $\log\left(1 - \frac{P}{r^2} - \frac{Q}{r^4}\right) = 9{\cdot}99283$ for 22·5 cms.

and $\log\left(1 - \frac{P}{r^2} - \frac{Q}{r^4}\right) = 9{\cdot}99572$,, 30·0 ,,

The attached thermometer of the instrument has no correction from 0° C. to 20° C. and from 30° C. to 45° C.; the correction at 25° C. is −0°·1 C.

Magnetometer No. 3.

Induction co-efficient $\mu = 7{\cdot}95$ or $\log \mu = 0{\cdot}90037$.

$\log \pi^2 K = 3{\cdot}44108$ and $3{\cdot}44160$ at 0° C. and 50° C. respectively.

Auxiliary inertia cylinder: length = 10·001 cms.
diameter = 0·989 „
mass = 65·041 grammes.

The temperature correction for decrease in the moment of the collimator magnet is equal to ·000381 $(t-0°) + {\cdot}00000105\ (t-0°)^2$, t representing the temperature in centigrade scale at which the observations are made.

In the graduations of the deflection bar the true distances at 0° C. corrected for bending, corresponding to apparent distances 23, 25, 30, 35, 40 and 45 cms., are respectively 22·995, 24·995 29·994, 34·993, 39·991 and 44·990 cms.

Deflection apparatus, angular value of one scale division = 61″·5.
Collimator magnet, „ „ „ „ = 1′·91.
The adopted values of the distribution corrections are—

$$\log\left(1-\frac{P}{r^2}-\frac{Q}{r^4}\right) = 9{\cdot}99942 \text{ for 23 cms., and}$$

„ „ „ = 9·99927 for 30 cms.

The corrections for the thermometer attached to the instrument for vibration observations are −0°·2 C. from 5° C. to 40° C. and −0°·1 C. at 45° C. In the case of the thermometer for deflection observations the corrections are −0°·1 C. at 5° C. and 45° C. and −0°·2 C. from 15° C. to 40° C.

Dip Circle.—Dip Circle No. 160 by the Cambridge Scientific Instrument Company is of the usual Kew pattern circles. Observations with this instrument have been made periodically in the room on the 2nd floor of the observation tower. It is installed on a separate pillar by itself. The reading of the azimuth circle of the instrument adopted for the place is 66° 15′. The position of the pillar was altered from 17th April 1908 for which the adopted reading is 67° 24′.

The dip needles used during the years 1906 to 1910 and observed on the instrument have been as follow:—

For regular bi-weekly observations—
Dover No. 1.
„ No. 2.
For supplementary observations—
Dover No. 1C.
„ No. 2C.

From 18th January to 2nd May 1908 supplementary observations of inclination were made with Dip Circle No. 110 and needles Nos. 1 and 2 by Dover Charlton. From June 1908 supplementary observations of inclination were made with the Inductor.

Earth Inductor.—This instrument No. 41 by Schultze of Potsdam with Galvanometer No. 200 by Plath was installed on specially constructed pillars in the room on the 2nd floor of the observation tower, in May 1908. The galvanometer is mounted on a separate pillar to the south of that carrying the Inductor. A little to the right on the same pillar and in the line of the magnetic meridian passing through the axle of the Inductor coil, is fixed the rotation stand. The arrangement allows the observer to watch the movement of the needle conveniently through the galvanometer telescope while the coil is being rotated from the stand on the right of the observer. The rotation stand is of special construction. It is adjustable in direction and height allowing of the flexible tube from the Inductor to be attached to it, at the proper distance and angle from the Inductor, and so devised as to obviate any undue strain affecting the Inductor when it is clamped to the angle of inclination, while it is being rotated. The Inductor consists essentially of a delicately balanced coil, the axle of which is adjustable to the necessary degree of accuracy both in azimuth and in altitude. The horizontal circle admits of an adjustment of the axis of the coil in azimuth to one minute of the true declination, while the vertical circle with its micrometer motion screw, allows the inclination to be read up to 1·5 seconds of arc. A gear with a suitable flexible tube is provided to set the axle of the coil in rapid rotation.

This rotatory motion induces currents in the coil as it cuts the lines of force of the terrestrial magnetic field in which it rotates. The alternate currents so generated are duly righted by means of a delicate commutator and the direct continuous currents are conducted by wires to the sensitive mirror galvanometer by Plath. It is obvious that when so rotating if the axle of the coil adjusted in declination is inclined to the horizon coincident with the exact angle of inclination, no currents can be induced, while at any other angle currents would be generated and detected with the aid of a galvanometer. The larger the departure of the inclination of the axle of the coil from the true dip, the stronger would be the induced currents and greater would be the deflection of the needle of the galvanometer. The mirror galvanometer with its four coils, and battery of directing magnets and the delicate astatic needle suspended by a very fine quartz fibre, allows of very sensitive adjustments to be made for the detection of the minutely feeble currents generated in the coil when the angle of inclination of the coil is closely near to the true dip, a very small excess or defect being indicated by a positive or negative deflection of the galvanometer needle. The true co-dip is given by the difference of the circle readings for the axis of the coil in the true vertical position and in the inclined position corresponding to the angle of the dip when no currents are induced as shown by the undisturbed condition of the galvanometer needle.

The Magnetographs.—The three magnetographs in use at Alibag are by Watson. They are mounted on isolated pillars in the room of the magnetograph building, a description of which is given elsewhere.

The magnet of the horizontal force instrument is made up of a system of three slender bar magnets arranged vertically on a light central aluminium piece. This arrangement of the magnet system instead of one single large magnet gives distinct advantages in respect of mass and magnetic moment while contributing also to a reduction of the temperature co-efficient. The carrier of the magnet system is supported by a very fine quartz fibre suitably attached to the torsion head with a scale and clamping screw for the adjustment and measurement of the angle of torsion. The centre piece of the magnet system carries a light aluminium carrier made of two cross bars designed to receive a mirror. The bars carry adjusting screws by which the mirror can be finally adjusted about a vertical axis in relation to the magnetic axis of the system of magnets, as also about a horizontal axis. Just below this is fixed to the base plate of the instrument, another mirror which serves the purpose of securing the zero or base line trace. This mirror is also adjustible in azimuth and verticality. The magnet system swings in a massive copper block which forms the frame of the instrument, within a small chamber of the same form as the magnet system, but just large enough to allow free motion to the magnets. This arrangement provides not only for an effective damper but secures uniformity of temperature of the magnets and the attached thermometer. The bulb of the thermometer is designed to lie in close proximity with the magnet system; and as both are enclosed in and closely surrounded by the copper mass, the thermometer can be relied upon to register the true and actual variations of temperature of the magnet system, which is so vitally essential for requirements. The thermometers are specially constructed with open scales, 1° F. being equal to a length of about 0·3 inch. The side of the metal box forming the frame work of the instrument, which faces the lamp slit and the recording apparatus, carries a plano-convex lens of 165 cm. focal length.

In the declination magnetograph all the detailed arrangements are the same as described above, but the suspension of the magnet in this instrument is secured by a fine ribbon of phosphor bronze instead of a quartz fibre. The magnet system here consists of nine slender magnets arranged in a circle of about 12 mm. diameter.

These two instruments recording H and D variations, the former oriented North-South and the latter East-West, have their recording apparatus installed on a single central pillar and are run together by the same clock. The drums carrying the sensitive bromide papers are fitted in well closed wooden boxes to facilitate the removal and replacement of the sensitive papers in a dark room. The tube which connects the recorder and the instruments, carries at the end towards the former a glass scale and moveable mirror which can be lowered into position for eye observations. The lamp and slit, as is usual in all such instruments, are devised to move through a distance of about $\frac{3}{4}$ of an inch to allow of two days' curves to be taken on one and the same sheet of paper. The beam of light as it passes through the slit traverses the tube and enters the magnet chamber through the plano-convex lens. As the two mirrors are adjusted at slightly different angles of inclination, the beam is separated after reflection here into two and repassing the lens and tube they enter the recording drum through a fine slit which being very close to the surface of the paper allows sharp images of the slit as reflected from the magnet and zero mirrors to be received on the paper. Arrangement for the introduction of a condensing cylindrical lens is provided with these instruments to allow of less sensitive papers to be utilized on the magnetograph, but as the image is appreciably less sharp than in the previous arrangement and as no other difficulties have compelled the use of the lens* it has not been used except when quick run traces have had to be secured.

* The formula given below for the scale co-efficient will slightly be modified owing to the introduction of the additional lens, in respect of the Declination Magnetograph.

The principal details of the Vertical Force Magnetograph are in the main the same as in the other magnetographs. The magnet system here consists of eight slender steel rods, each 10 cms. long and 0·2 cm. in diameter, fixed in two horizontal rows of four each in a central frame made of aluminium. The agate knife edge and an adjustible mirror lie between these rows on the frame which carries also a short thin vertical rod above on which a small weight is screwed, by raising or lowering which the final adjustment of the centre of gravity and of the sensitiveness of the balance, can be made. The frame carries a light vane and counterpoise horizontally for adjusting the balance. A zinc rod with small moveable weights is screwed into a small bar which is attached to two of the magnets, but does not touch the central frame through which it passes freely as the hole is kept wide enough for this. With proper adjustment of these the readings of the magnet balance are made nearly independent of the temperature variations. The outer box which is of metal, carries centrally on a short pillar the agate plane for receiving the agate knife edge of the magnet system, which has a suitable device with a lever and hole, and slot and plane arrangement for raising and lowering the magnet on the agate plane exactly in the same position as before. The box also contains within, five copper plates or dampers arranged vertically side by side as close as possible but just sufficiently apart to allow the slender magnets to move freely between them. The scale co-efficients of the force magnetographs are derived periodically from weekly deflection observations performed on the instruments with deflectors as already referred to, at 100 cms. distance in the case of H and at 75 cms. distance in the case of V. magnetograph. The deflector used up to May 1908 was magnet No. 137 while after that date magnet No. 3 was employed for this purpose. The values of the co-efficients used in the reductions are given below :—

Scale co-efficients of H. F. Magnetograph for 1 cm. of ordinate on the photographic paper.

Years.	January.	February.	March.	April.	May.	June	July.	August.	September.	October.	November.	December.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1904 ...	...	...	...	41·2	41·8	41·9	42·4	42·7	42·8	42·9	43·3	43·5
1905 ...	44·0	43·8	43·3	43·2	43·1	43·8	43·7	43·7	43·6	43·1	44·2	44·6
1906 ...	44·4	44·6	44·6	44·2	44·1	44·0	43·6	43·8	43·3	44·9	45·1	45·0
1907 ...	45·0	44·7	44·6	44·6	44·6	44·5	44·3	44·2	45·3	45·5	45·4	45·8
1908 ...	45·6	45·6	45·4	45·3	45·0	45·5	45·4	45·2	44·9	45·1	45·8	46·0
1909 ...	46·0	45·9	45·9	45·9	45·8	45·8	45·8	45·8	45·6	45·3	45·4	45·4
1910 ...	45·4	45·3	45·4	45·1	45·0	46·5	46·5	46·4	46·4	46·4	46·0	46·2

γ = ·00001 C. G. S.

Scale co-efficients of V. F. Magnetograph for 1 cm. of ordinate on the photographic paper.

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1904 ...	...	...	...	92·9	95·2	94·1	92·8	94·0	93·0	93·5	92·9	92·1
1905 ...	92·1	91·5	90·9	94·7	94·2	94·2	93·8	93·2	92·8	93·7	93·6	92·9
1906 ...	92·5	92·1	91·7	96·8	98·9	96·9	94·2	94·0	93·4	93·9	93·6	92·8
1907 ...	92·9	92·3	92·7	92·8	93·4	93·4	92·1	91·4	91·9	91·8	93·1	92·6
1908 ...	91·6	91·9	91·8	91·7	92·6	93·0	93·8	93·8	93·3	93·3	94·1	93·3
1909 ...	92·7	93·4	93·2	92·8	93·3	93·4	92·6	92·4	92·9	92·7	93·4	93·1
1910 ...	92·6	92·5	92·5	92·9	93·4	93·1	92·7	92·5	92·6	92·5	92·7	92·9

γ = ·00001 C. G. S.

The several measurements necessary for the determination of the co-efficient of the Declination Magnetograph are as follow :—

Distance D from the lens to the edge of the recording cylinder = 167·98 cms.

Distance d from the lens to slit = 156·29 cms.

Distance m from mirror to lens = 1·744 cms.

Thickness of the cylindrical lens t = 0·33 cms.

The change due to 90° of torsion of the phosphor bronze ribbon was found to be 1·00 cm. on the paper whence the torsion co-efficient $\frac{1}{\Gamma} + \frac{H}{F}$ works out as 1·00530.

The scale co-efficient for 1 cm. of ordinate hence as given by the formula

$$a = \frac{1}{2D}\left(1+\frac{\frac{2Dd}{D-d}^{m}}{+\,m}\right)\left(1+\frac{H}{F}\right)$$

works out as 10'·28 which has been used in the reductions during the period.

The temperature co-efficient of the Horizontal Force Magnetograph has been determined by heating experiments and its adopted value is ·000036 C. G. S. for 1° F.

The temperature co-efficient of the Vertical Force Magnetograph was found in the same experiments to be practically nil as no appreciable change in force after allowing for the actual diurnal change, could be definitely ascertained as being due to temperature effects.

8. Processes of Reduction and Description of the Tables of Results, 1906 to 1910.

(a) Meteorological tables.

Pressure of Vapour and additional capacity of the Air.—Having obtained, from the tabulations of the barograms and thermograms, hourly values of barometric pressure, temperature of the air and temperature of evaporation, the pressure of vapour was calculated for each hour with the aid of a table by the formula

$$f'' = f' - \text{·}01147\ (t-t') \times \frac{P-f'}{30}$$

in which t and t' denote the temperatures of the air and wet bulb thermometers respectively, f'' and f' the pressure of vapour at the temperature of the dew point and at temperature t', and P the barometric prssure. The values of the pressure of vapour at different temperatures were taken from the following table, the numbers in which have been extracted from Boileau's Collection of Tables :—

Table I.—*Regnault's values of the Pressure of Vapour at different temperatures.*

Temperature.	Pressure of vapour.	Temperature.	Pressure of vapour.	Temperature.	Pressure of vapour.	Temperature.	Pressure of vapour.	Temperature.	Pressure of vapour.	Temperature.	Pressure of vapour.	Temperature.	Pressure of vapour.	Temperature.	Pressure of vapour.	Temperature.	Pressure of vapour.
°	Inch.	°	Inch.	°	Inch.	°	Inch.	°	Inch.	°	Inch.	°	Inch.	°	Inch.	°	Inch.
35	·204	43	·278	51	·374	59	·500	67	·662	75	·868	83	1·128	91	1·455
36	·212	44	·288	52	·388	60	·518	68	·685	76	·897	84	1·165	92	1·501
37	·220	45	·299	53	·403	61	·537	69	·709	77	·927	85	1·203	93	1·548
38	·229	46	·311	54	·418	62	·556	70	·733	78	·958	86	1·242	94	1·597
39	·238	47	·323	55	·433	63	·576	71	·758	79	·990	87	1·282	95	1·647
40	·248	48	·335	56	·449	64	·596	72	·784	80	1·023	88	1·324	96	1·698
41	·257	49	·348	57	·466	65	·617	73	·811	81	1·057	89	1·366	97	1·751
42	·267	50	·361	58	·482	66	·639	74	·839	82	1·092	90	1·410	98	1·805

To find the additional capacity of the air the pressure of vapour is deducted from the number in the above table standing opposite to the temperature of the air.

Barometric Pressure.—In Table I*a* is shown, for every day in the year for each year, the mean of 24 hourly tabulations of the barograph, corrected to agree with Newman's barometer No. 58; also the mean pressure for each month and each year, and the excess of each monthly mean above the annual mean for the same year. The principal features of the annual variation are indicated at the foot of the table. The maximum and minimum daily pressures for each month are distinguished by being printed in strong figures.

In Table I*b* are given the diurnal inequalities of the Barometric Pressure for each month of the year and for the whole year. The figures represent the excesses of the mean hourly values of pressure over the respective monthly means. The greatest positive and negative excesses over this mean are printed in strong figures, the difference between the two giving the periodic diurnal range being shown at the foot of the table.

Temperature of the Air, etc.—The plan of the following tables is the same as that of Tables I*a* and I*b*, but the meteorological elements they represent, and the sources from which the numbers are obtained and the mode of their derivation, are as stated below :—

Tables IIa and IIb.—Temperature of the air derived from hourly tabulations of the thermograph dry-bulb.

Tables IIIa and IIIb.—Pressure of vapour derived from hourly tabulations of the thermograph dry-bulb and wet-bulb, and of the barograph; and calculated in the manner described above.

Tables IVa and IVb.—Additional capacity of the air derived from hourly differences between the pressure of vapour corresponding to the temperature of the air and the calculated actual pressure of vapour.

Tables VIa and VIb.—Velocity of the wind without regard to direction derived from hourly tabulations from the register of the Robinson Beckley anemograph.

Tables VIc and VId.—Velocities of the north and east components of the wind derived from hourly tabulations from the register of the Robinson-Beckley anemograph.

Tables VIf and VIg.—Velocity of the wind derived from hourly tabulations from the register of the Dines' anemometer.

In Tables II*c* and II*d* are given respectively the maximum and minimum temperatures during the day derived from a pair of maximum and minimum thermometers Nos. 10329 and 37909 by Negretti and Zambra.

Tables V*a* and V*b* are on the same plan as Table I*a* except that the entries made in them, refer to aggregates of rainfall—daily, monthly and yearly—instead of mean values: and they are sufficiently explained by their several headings.

The numbers in Table VI*e* refer to wind velocities and are derived from hourly tabulations from the register of the Robinson-Beckley anemograph. The temperatures of the ground given in Table VII*a* are derived from the readings of the several thermometers, made five times a day as regards the 1 inch and 9 inches deep thermometers, and once a day as regards the 20 inches, 60 inches and 132 inches deep thermometers.

In Table VII*b* are shown for each of the five observation hours and for the mean of the day, the temperatures of the ground exposed to the direct rays of the sun, at the depths of 1 and 8 inches below the surface.

In Table VIII are collected data showing the extreme limits between which the oscillations of barometric pressure, temperature of the air, pressure of vapour, and additional capacity of the air were confined in each month and in the whole year, and also the ranges of the respective oscillations. It also indicates the extreme readings of the 1 inch and 8 inches deep thermometers exposed to the solar rays. Table IX gives the daily mean extent of cloudy sky derived from estimations made at 6, 10, 14, 16 and 22 hours.

The five-day means in Table X are derived from the hourly tabulations of the barograph (reduced to the readings of Newman's barometer No. 58) and thermograph, from the measurements in Newman's rain gauge, and from the hourly tabulations from the register of the Robinson-Beckley anemograph. In other respects these tables require no explanation beyond their titles, the headings of the several columns, and the foot-notes.

Table XI is practically a continuation of similar tables published in the Appendix to the thirty-fourth volume of the Bombay magnetical and meteorological observations of the year 1895. For an explanation of the sources and the methods of reductions of entries in this table reference may therefore be made to that volume. Entries in this table after 1895 are taken directly from the subsequent volumes of the Bombay magnetical and meteorological observations.

(*b*) *Tables of magnetic results.*

Tables I*a*, I*b*, II*a*, II*b*, III*a*, III*b* for each year are on the same plan as similar tables published in the previous volumes and call for no special remarks beyond those made at page xvi giving the description of the magnetic instruments.

Tables IV*a* to IV*e* give the base line values of the Horizontal Force magnetograph as derived from absolute observations of H by magnetometers Nos. 7 and 3, details of which are given in Tables I*a* and I*b* for each year. They serve indirectly the useful purpose of indicating the probable errors of the absolute determinations, while furnishing smooth values of the base line adopted for the derivation of the correct daily mean values of H.

Tables V*a* and V*b* similarly give the base line values of the declination magnetograph derived from both the magnetometers.

Tables VI*a* to VI*e* give the daily means of Horizontal Force derived from all the twenty-four hourly ordinates, while Tables VII*a* to VII*e* similarly give the daily means of absolute declination.

Table VIII gives the monthly means of H, D, V, and I determined by the usual method which consists in correcting the monthly mean of the observed absolute values by the difference between the mean ordinate at the time of the absolute determinations and the mean monthly ordinate derived from the twenty-four hourly tabulations.

Tables IX*a* to IX*e* give for each year the magnetic character of each day as determined from the inspection of the Horizontal Force traces, and the list of quiet days selected from them for the determination of the magnetic diurnal inequalities. Tables IX*f* to IX*k* give the magnetic character of each day from 10 A.M. to 10 A.M. and also the difference of the daily mean of H from that of the preceding day. The tables are a continuation of table 381 published in the Colaba Magnetic Data, 1846 to 1905, Part II, Chapter X, and are derived exactly on the same lines.

Tables X*a* to X*e* give the non-periodic diurnal ranges of Horizontal Force determined from the hourly tabulations.

Tables XI*a* to XI*e* similarly give the Declination ranges.

Tables XII*a* to XII*f*, XIII*a* to XIII*f*, XIV*a* to XIV*f* and XV*a* to XV*f* give respectively the diurnal inequalities of Horizontal Force, Declination, Vertical Force and Inclination for each month of the year for the winter and summer half year and for the whole year. Up to the end of 1906 the tabulations of V, D and H magnetograms were made at 17, 18 and 19 minutes *past* the full hour which were the times adopted at Colába from the very commencement of the Magnetograph record in 1872. From the 1st January 1907 however these times were respectively altered to 10, 9 and 8 minutes *before* the full hour in order that these instants of time may correspond to and lie about the exact full hour of Greenwich mean time.

Table XVI gives for the years 1906 to 1910 the variations of temperature in the H. F. Magnetograph enclosure, while Table XVII gives similar variations in the V. F. Magnetograph enclosure. The very minute variations of temperature in these tables serve to show that the diurnal inequalities given in the preceding tables may be taken practically as compensated for temperature especially as the temperature co-efficients of the two instruments are small (*vide* reference above).

Table XVIII gives the magnitudes of the aperiodic corrections applicable to the all-day diurnal inequalities of Horizontal Force as determined by different processes. Tables XIX and XX give similar figures for the Declination and the Vertical Force inequalities respectively.

In other respects all the above tables require no explanation beyond their titles, the headings of the several columns and the foot-notes.

(*c*) *Table of seismic disturbances.*

Table I for each year gives the list of seismic disturbances recorded by the Milne's seismograph. It is on the same plan as similar tables published in the previous volumes of the observatory and calls for no remarks.

In tables II*a* and II*b* are similarly given details of seismic disturbances recorded by the Colaba (E.-W. and N.-S.) seismographs Nos. 1 and 2 respectively. The records by these instruments were always taken in ink and crow quill but they were substituted by records on smoked paper from the beginning of May 1908 in the case of the former instrument and from the beginning of December 1909 in the case of the latter.

Table III gives the list of disturbances recorded by the Omori-Ewing seismograph while in table IV is given a similar list of movements picked up by the float record of the vertical movement seismograph.

9. NOTES ON INSTRUMENTAL CHANGES AND ON ALL IRREGULARITIES OR DEPARTURES FROM THE ROUTINE OF OBSERVATION OR REDUCTION DURING THE PERIOD 1906 TO 1910.

Robinson-Beckley Anemograph.—The external parts were painted on May 21st, 1906, May 28th, 1908, June 8th, 1909, and May 30th, 1910. The clock was taken to pieces for cleaning on 13th March 1909. The aggregate of all the interruptions of the instrument in the years 1906 to 1910 was $22^h\ 22^m$. In all such cases the interruptions were of short duration and were substituted by values obtained from Dines's record by the constant factor determined for the two instruments. No complete day's record has been omitted in the formation of the monthly abstracts with the exception of the period of about 38 days from 1907 October $30^d\ 11^h$ to December $7^d\ 24^h$ during which the old anemograph was dismounted and the anemometer tower was under repairs and modifications for receiving the new instrument. For this interval, which has not been included in the above aggregate, the wind velocities were obtained from the Dines' record by the constant factor determined for the two instruments while the directions were determined by actual hourly observations.

Dines's Anemometer.—The sensibility of the instrument is determined by a weight of 16 grains which produces a displacement of the pen, measuring about one mile on the chart. Whenever this is appreciably affected, the instrument is opened up and cleaned, and the accumulated scum on the float removed. The instrument was so cleaned and adjusted on the 20th May 1908 and on the 11th May 1910. The aggregate of all the interruptions of the instrument for the five years 1906 to 1910 was respectively, $1^d\ 0^h\ 31^m$, $0^d\ 22^h\ 36^m$, $1^d\ 5^h\ 27^m$, $1^d\ 23^h\ 11^m$ and $1^d\ 23^h\ 23^m$. The interruptions were

principally due to adjustment of the instrument, to casual failure of the pen to record the fluctuations, to re-adjustment of the inclination of pen, to the stoppage or cleaning of the clock and to the derangement of the driving apparatus. On a few occasions, when the wind velocity was very weak and fell near to zero, the record appeared to be faulty and had to be interpolated and is not included in the above aggregate. No complete day's record has been omitted in the formation of monthly abstracts, as there was no seriously continuous loss of record in any one day, and the short interruptions were made good by interpolation from Robinson-Beckley's record by the constant determined for the two instruments. Short interruptions caused by the regular change of paper every day for both anemometers, if not unusually prolonged, are not included in the above aggregate.

Method of interpolation in Tabulations.—When for any reason the traces furnished by the photographic self-registering instruments are interrupted, and the interruption includes the moments when one or more hourly tabulations should be made, these last are either substituted by the corresponding eye-observations, if the hours should happen to be any of the five regular observation hours, or if special eye-observations were taken for the purpose, or else if no eye-observations are available, they are interpolated. Interpolation is resorted to rarely and only in case of accidents, otherwise, eye-observations are always made, in order to keep the record unbroken. If the interruption lasts for less time than one hour, the interpolation is made on the assumption that the rate of change of the phenomenon from its value at the beginning to that at the end of the interruption was uniform, provided that the parts of the curve immediately preceding and immediately following the gap were, in appearance, continuations of the straight line connecting the extremities of the gap. If the last condition is not satisfied, or if the gap, taking account of points inserted by means of eye-observations, is of greater length than one hour, the interpolation is made between the next preceding and the next following hourly entries, first, by allowing for the known *normal* rate of change of the phenomenon between those hours in the same month, and then by assuming that any additional change, shown by the difference between the values of the phenomenon at the two extreme hours, has grown at a uniform rate. Such interpolated values however are entered in the abstract sheets with enclosing square brackets while inserted eye-observations are shown between parentheses.

Barograph.—No tabulations were obtained for the following hours for the several reasons stated, but eye-observations were available and were adopted for the hours marked within parentheses, in 6 cases out of 11, interpolation being resorted to in the remaining 5 cases :—

(1) String of the driving weight of clock, renewed on 1907 April 4^d (11^h).
(2) Defect in the burner on 1907 June 7^d 7^h and on 1907 June 8^d 9^h.
(3) Clock taken to pieces for cleaning on 1907 September 9^d (10^h to 13^h).
(4) Stoppage of the clock on 1910 January 12^d 2^h to 4^h.
(5) Defective action of the bi-hourly fan on 1910 August 11^d (14^h).

Occasional, though rare, failure of bi-hourly stops to act has caused no loss of record.

The aggregate of all the interruptions of the barograph in the years 1906 to 1910 was 13^h 47^m, and the number of hourly tabulations lost was 11, and of these 6 were substituted by eye-observations, leaving 5 more to be interpolated. Short interruptions caused by the regular change of photographic paper and by change of lamps, if not unusually prolonged, are not included in the above aggregate, nor in the aggregates of interruptions of the thermographs that follow further on.

Thermograph Dry-Bulb.—No tabulations were obtained for the following hours for the several reasons stated, but eye-observations were available and were utilised for the hours marked within parentheses, in all cases, except in 5, when interpolation had to be resorted to :—

(1) Adjustment of the speck on 1906 October 10^d (10^h).
(2) Defect in the light on 1906 October 22^d 11^h and 12^h.
(3) Mixing of the curve with the pluviograph curve owing to high temperature on 1906 October 23^d 14^h.
(4) Stoppage of the clock due to faulty action of the bi-hourly fan on 1907 March 12^d 7^h.
(5) The clock machinery oiled on 1907 April 5^d (11^h).
(6) Examination of the bi-hourly stop arrangement on 1907 April 30^d (12^h).
(7) Cleaning of the clock on 1907 May, 1^d (8^h), 9^h, (10^h), (11^h), (12^h) and (13^h).
(8) Loss of curve due to very high temperature on 1908 April 14^d (11^h).
(9) Clock taken to pieces for cleaning on 1909 October 6^d (13^h to 17^h).
(10) Examination of the bi-hourly stop arrangement on 1909 October 13^d (10^h) and 17^d (10^h).
(11) Adjustment of the specks on December 4^d (10^h to 12^h).

Occasional, though rare, failure of the bi-hourly stops to act has caused no appreciably large loss of record.

The aggregate of all the interruptions of the thermograph dry-bulb in the years 1906 to 1910 was $28^h\ 2^m$, and the number of hourly tabulations lost was 24, and of these 19 were substituted by eye-observations, leaving 5 to be interpolated.

On account of exceptionally heavy firing of the guns of the Colâba Battery adjoining the compound of the Observatory, the Dry-bulb thermograph thermometer was found cracked on the 8th June 1906 and the record was found faulty from $8^d\ 9^h\ 43^m$ to $10^d\ 9^h\ 22^m$. It was replaced by another thermometer during the interval from 1906 June $10^d\ 9^h\ 22^m$ to $10^d\ 17^h\ 25^m$. The total number of hourly tabulations lost on this account was 56 all of which were substituted by eye-observations which were specially made for the purpose. These interruptions are not included in the above aggregate.

Thermograph Wet-Bulb.—No tabulations were obtained for the following hours for the several reasons stated, but eye-observations were available and were adopted for the hours marked within parentheses, in all cases except in 5, when interpolation had to be resorted to :—

(1) Loss of curve due to the substitution of a new spare thermometer in the place of the old dry-bulb thermometer which was broken from 1906 June 10^d (10^h to 17^h).

(2) Ajustment of the dry-bulb speck : same as for dry-bulb.

(3) The muslin covering the bulb was found dry on 1907 January 29^d (14^h) and on 1907 February $19^d\ 13^h$ and (14^h).

(4) Loss of curve due to low temperature on 1907 February $20^d\ 2^h$.

(5) Stoppage of the clock due to the faulty action of the bi-hourly fan : same as for dry-bulb.

(6) The clock machinery cleaned and oiled : same as for dry-bulb.

(7) Examination of the bi-hourly stop arrangement : same as for dry-bulb.

(8) Cleaning of the clock : same as for dry-bulb.

(9) Defect in the lamp on 1908 June $5^d\ 9^h$.

(10) Clock taken to pieces for cleaning : same as for dry-bulb.

(11) Examination of the bi-hourly stop arrangement : same as for dry-bulb.

(12) Adjustment of the specks : same as for dry-bulb.

Occasional, though rare, failure of the bi-hourly stops to act has caused no appreciably large loss of record.

The aggregate of all the interruptions of the thermograph wet-bulb in the years 1906 to 1910 was $2^d\ 7^h\ 10^m$, due to the causes mentioned above and to the short intervals of time occupied in cleaning and renewing the muslin covering of the bulb and the bundle of threads connecting it with the supply of water. The total number of hourly tabulations lost was 33 and of these 28 were substituted by eye-observations, leaving 5 to be interpolated.

Self-registering Rain-Gauge.—No tabulations were obtained for the following hours for the several reasons stated :—

(1) Faulty working of the syphon in the receiver from 1906 August $24^d\ 2^h$ to 5^h.

(2) Faulty record due to fouling of mercury from 1910 July $30^d\ 16^h$ to August $1^d\ 12^h$ and from 1910 August $7^d\ 0^h$ to $9^d\ 12^h$.

(3) Cleaning and adjustment of the instrument from 1910 August $1^d\ 12^h$ to 16^h and from 1910 August $9^d\ 12^h$ to 18^h.

In all cases eye-observations of Newman's rain-gauge were made use of to fill up the gaps and to obtain the daily total rainfall.

Horizontal Force magnetograph.—The following statement shows the principal cases in which irregularities of procedure have been rendered necessary in the hourly tabulations by extraneous disturbing influences or by imperfections in the working or management of the instruments :—

(1) Adjustment of the instrument from 1906 October $26^d\ 16^h\ 35^m$ to $18^h\ 13^m$. Ordinates from 10^h to 16^h corrected by the calculated constant difference in the values of the ordinates before and after the adjustment to make the whole day comparable. Tabulation for 17^h interpolated.

(2) Displacement of the slit from 1907 July $31^d\ 23^h\ 30^m$ to August $1^d\ 5^h\ 55^m$. Tabulations from 24^h to 6^h interpolated.

(3) Failure of hourly breaks from 1907 August 15^d 10^h to 17^d 8^h. Tabulation was made by assuming uniform motion of the cylinder from the observed time of the commencement of the record to the observed time of its end.

(4) Renewal of the zero mirror of the instrument from 1907 October 21^d 10^h 23^m to 11^h 20^m. A constant correction due to the shift in the specks applied for 10^h to make the day comparable and tabulation for 11^h was interpolated.

(5) Irregular motion of the cylinder from 1908 June 16^d 9^h 18^m to 22^h 11^m. As the loss of record exceeds half a day this day is rejected for taking the monthly averages.

(6) Adjustment of the instrument on 1908 November 11th, tabulations from 10 to 13 hours corrected by the constant difference in the ordinates determined from the readings of the instrument immediately before and after the adjustment.

(7) Magnetic storm carried the curve out of the field of paper from 1909 September 25^d 18^h 30^m to 19^h 25^m from 19^h 31^m to 48^m, from 19^h 52^m to 20^h 25^m and from 20^h 32^m to 22^h 12^m. Tabulations for 19, 21 and 22^h were determined by assuming that the rate of increase or decrease of the ordinate from the exact instant of tabulation to the exact time of the nearest curve trace was the same as that found from the trace immediately before or after such nearest curve points.

(8) Tabulations from 1909 September 25^d 22^h to 26^d 13^h corrected for the effect of the deflector magnet which was put on the instrument to bring the curve within the field of the paper.

(9) Obstruction in the motion of the cylinder from 1909 December 9^d 12^h 44^m to 58^m. Tabulation for 13^h interpolated.

(10) Obstruction in the motion of the cylinder from 1910 February 3^d 14^h 45^m to 58^m. Tabulation for 15^h interpolated.

(11) Clock taken to pieces for cleaning from 1910 February 10^d 11^h 56^m to 15^h 47^m. Tabulations for 13, 14 and 15 hours substituted by eye readings.

(12) Overlapping of the curve due to stoppage of the movement of the cylinder of which the cause is unknown from 1910 April 16^d 9^h 35^m to 52^m. Tabulation for 10^h substituted by eye observation.

(13) Adjustment of the instrument from 1910 May 31^d 10^h 29^m to 35^m. Tabulations from 31^d 11^h to June 1^d 9^h corrected by the constant difference found from the readings taken immediately before and after the adjustment.

Occasional, though rare, failure of the hourly stops to act has caused no appreciably large loss of record.

The aggregate of all the interruptions of the Horizontal Force Magnetograph in the years 1906 to 1910 was 2^h 44^m, 9^h 31^m, 14^h 14^m, 3^h 50^m and 5^h 29^m respectively. The total number of hourly tabulations lost during these years was 31 out of which 4 were substituted by eye observations of the instrument.

Shift in the base line value of the Horizontal Force Magnetograph occurred on the following occasions for the several reasons stated :—

(1) Adjustment of the instrument on 1906 October 5th.
(2) Adjustment of the instrument on 1906 October 26th.
(3) The instrument opened on 1907 January 11th.
(4) Adjustment of the instrument on the 1st September 1907.
(5) Adjustment of the zero and the magnet mirrors on 1907 October 21st.
(6) Adjustment of the instrument on 1908 November 11th.
(7) Adjustment of the instrument on 1910 May 31st.

Declination Magnetograph.—The following statement shows the principal cases in which irregularities of procedure have been rendered necessary in the hourly tabulations by extraneous disturbing influences or by imperfections in the working or the management of the instruments :—

(1) Passing of the curve speck above the slit : adjustment of the instrument from 1906 October 26^d 18^h 16^m to 27^d 8^h 29^m : rejected the whole day for taking the monthly averages.

(2) Renewal of the magnet mirror from 1906 December 29^d 8^h 32^m to 10^h 38^m. Tabulation for 9^h and 10^h found from the eye readings of the Declination Magnetometer.

(3) Defect in the lamp from 1907 November 15^d 4^h 38^m to 5^h 56^m. Tabulation for 5^h and 6^h interpolated.

(4) Tabulations from 1909 September $25^d\ 23^h$ to $26^d\ 13^h$ corrected for the effect of the deflector which was put upon the Horizontal Force Magnetograph to bring the curve within the field of paper at the time of the great magnetic disturbance on that day.

(5) Obstruction in the motion of the cylinder from 1909 December $9^d\ 12^h\ 44^m$ to 58^m. Tabulation for 13^h interpolated.

(6) Obstruction in the motion of the cylinder from 1910 February $3^d\ [illegible]^h\ 45^m$ to 58^m. Tabulation for 15^h interpolated.

(7) Clock taken to pieces for cleaning from 1910 February $10^d\ 11^h\ 56^m$ to $15^h\ 47^m$. Tabulations for 13, 14 and 15 hours substituted by eye observations.

Occasional, though rare, failure of the hourly stops to act has caused no appreciably large loss of record.

The aggregate of all the interruptions of the Declination Magnetograph record in the years 1906 to 1910, was $16^h\ 39^m$, $1^h\ 51^m$, $0^h\ 17^m$, $0^h\ 37^m$ and $4^h\ 16^m$ respectively. The total number of hourly tabulations lost during these years was 24 out of which 5 were substituted by eye readings.

Shift in the base line value of the Declination Magnetograph occured on the 26th October 1906 when the instrument was adjusted and on the 19th December 1910 on which day the instrument was opened and cleaned.

Vertical Force Magnetograph.—The following statement shows the principal cases in which irregularities of procedure have been rendered necessary in the hourly tabulations by extraneous disturbing influences or by imperfections in the working or the management of the instruments:—

(1) Adjustment of the instrument from 1906 April $20^d\ 10^h\ 7^m$ to $11^h\ 43^m$. Tabulation for 10^h and 11^h interpolated.

(2) Defective curve owing to overlapping, etc., from 1906 September $12^d\ 9^h\ 50^m$ to $13^d\ 9^h\ 33^m$. The whole day is rejected for taking the monthly averages.

(3) Adjustment of the instrument from 1907 May $8^d\ 10^h\ 52^m$ to $11^h\ 28^m$. Owing to defective curve after the adjustment the whole day is rejected for taking the monthly averages.

(4) Failure of hourly breaks from 1908 January $2^d\ 10^h$ to $3^d\ 13^h$. Tabulation was made by assuming uniform motion of the cylinder from the observed time of the commencement of the record to the observed time of its end.

(5) Loss of curve due to the omission to raise the eye-reading mirror from 1908 January $13^d\ 13^h\ 49^m$ to $15^h\ 47^m$. Tabulation for 15^h interpolated.

(6) Loss of curve due to omission to draw back the shutter at the time of starting the record from 1908 February $11^d\ 9^h\ 32^m\ 15^h\ 57^m$. It was decided to reject the day for the purposes of the mean monthly averages.

(7) The V. F. magnet disturbed when a new thermometer was placed in the magnetograph enclosure from 1908 July $11^d\ 17^h\ 21^m$ to 44^m. Owing to the record being defective the whole day was rejected for taking the monthly averages.

(8) Shift in the curve specks from 1908 September $21^d\ 14^h\ 34^m$ to $15^h\ 57^m$. Tabulations for 15^h and 16^h interpolated.

(9) Defective record on the 25th September 1908 due to the examination of the instrument from $11^h\ 11^m$ to $11^h\ 29^m$. The whole day is rejected for taking the monthly averages.

(10) Failure of hourly breaks from 1909 January $8^d\ 10^h$ to $12^d\ 22^h$. Tabulation was made by assuming uniform motion of the cylinder from the observed time of the commencement of the record to the observed time of its end.

(11) Loss of curve from 1909 February $23^d\ 9^h\ 37^m$ to $16^h\ 28^m$. The whole day rejected for taking the monthly averages.

(12) Loss of curve due to the shocks to the instrument caused by the repairs to the roof of the magnetograph building from 1909 March $24^d\ 14^h\ 15^m$ to $15^h\ 55^m$. Tabulations for 15 and 16^h interpolated.

(13) Loss of curve due to shocks to the instrument caused by the repairs to the roof of the magnetograph building from 1909 March $30^d\ 17^h\ 24^m$ to $21^h\ 56^m$. The whole day is rejected for taking the monthly averages.

(14) Owing to the shocks caused by the repairs to the roof of the magnetograph building the curve was shifted and the magnet was lifted and lowered from 1909 April $1^d\ 17^h\ 41^m$ to 45^m, $6^d\ 10^h\ 50^m$ to 54^m and $8^h\ 16^h\ 42^m$ to 46^m. Tabulations from $1^d\ 10^h$ to 17^h, $6^d\ 10^h$ and 11^h, and $8^d\ 10^h$

to 16 corrected by dislocations to the curve amounting to ·025, 045 and ·020 cms. which occurred on this account, to make the whole day comparable.

(15) Examination of the specks from 1909 May 25^d 10^h 11^m to 18^m. Tabulation for 10^h corrected by a dislocation of ·030 cms. which occurred at that time to make the whole day comparable.

(16) Adjustment of the instrument from 1909 November 16^d 10^h 21^m to 47^m. Owing to the curve being defective after the adjustment the whole day is rejected for taking the monthly averages.

(17) Obstruction in the motion of the cylinder from 1910 May 31^d 9^h 35^m to 22^h 1^m. As the loss of curve exceeds half a day the whole day is rejected for taking the monthly averages.

(18) Adjustment of the instrument from 1910 November 30^d 8^h 25^m to 46^m. Owing to the curve being defective after the adjustment the single tabulation for 9^h is interpolated and the whole of the 30th is rejected for taking the monthly averages.

Occasional, though rare, failure of the hourly stops to act has caused no appreciably large loss of record.

The aggregate of all the interruptions of the Vertical Force Magnetograph record during the years 1906 to 1910 was 1^d 3^h 1^m, 0^h 40^m, 10^h 56^m, 15^h 12^m and 13^h 30^m respectively during which the curve has been completely lost.

The following is a complete list of dislocations which have been noted to have occurred on the Vertical Force Magnetograph curves. Whenever a dislocation has occurred in the middle of the day as reckoned from 10^h to 9^h of the following day the tabulations of the hours immediately preceding or following the time of the dislocations have been corrected by the amounts determined from the measurements on the curves to make the whole day comparable throughout and thus to obtain an unvitiated diurnal inequality. Such corrections have also been applied whenever the tabulation ordinates had to be made comparable as in the case of the determination of the absolute values and the derivation of the quiet day diurnal inequalities. The times of occurrence of these dislocations together with the amounts (in cms.) by which the curves have been shifted are as detailed below :—

1906	January	...	12d 14h 1m	(·018);	January	..	20d 22h 17m (·010);
	February	...	11d 14h 17m	(·010);	February	...	15d 14h 18m (·015);
	February	...	27d 11h 48m	(·010);	March	...	26d 22h 17m (·013);
	March	...	30d 14h 7m	(·015);	April	...	18d 14h 17m (·013);
	April	...	20d 22h 27m	(·008);	April	...	21d 6h 17m (·013);
	April	...	22d 14h 17m	(·023);	April	...	26d 22h 17m (·010);
	May	...	1d 16h 17m	(·070);	May	...	11d 14h 7m (·012);
	June	...	6d 6h 18m	(·015);	August	...	29d 11h 53m (·235);
	August	...	31d 6h 34m	(·178);			
1907	January	...	11d 9h 32m	(·040);	May	...	19d 9h 28m (·170);
	July	...	5d 14h 18m	(·030);	July	...	9d 10h 1m (·060);
1908	March	...	28d 16h 7m	(·080);	April	...	25d 21h 50m (·020);
	October	...	6d 9h 38m	(·045);	December	...	25d 15h 50m (·030);
1909	April	...	1d 17h 43m	(·025);	April	...	6d 10h 52m (·045);
	April	...	8d 16h 44m	(·020);	May	...	10d 19h 27m (·040);
	May	...	25d 10h 14m	(·030);	September	...	14d 9h 53m (·040);
1910	July	...	15d 5h 51m	(·070);	August	...	20d 8h 30m (·020);
	December	...	20d 9h 51m	(·050).			

Bombay Observatory, June 1913.

N. A. F. MOOS,
Director, Government Observatories,
Bombay and Alibag.

TABLES OF RESULTS

DERIVED FROM

THE CONTINUOUS REGISTRATIONS OF AUTOMATIC METEOROLOGICAL INSTRUMENTS

AND FROM

ABSOLUTE METEOROLOGICAL OBSERVATIONS.

1906—1910.

133564

B 821—a

Barometric Pressure, 1906.

TABLE Ia.—*Daily and Monthly Means.*

Height of the Barometer above mean sea-level = 37 feet.

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	29·941	29·983	29·911	29·841	29·778	29·729	29·628	29·734	29·735	29·897	**29·856**	**29·980**
2 ...	·930	·977	·930	·808	·780	·763	·627	·677	·745	**911**	·868	·973
3 ...	·941	·986	·931	·780	·767	·744	·632	·721	·753	·897	·899	·958
4 ...	·967	**30·005**	·941	·823	·758	·744	·616	·804	·736	·881	·914	·929
5 ...	·982	29·960	·956	·824	·770	·729	·615	**834**	·712	·869	·930	·932
6 ...	·933	·909	·976	·781	·793	·713	·594	·812	·709	·887	·923	·962
7 ...	·911	·890	·957	·785	·753	·660	·606	·769	·735	·876	·911	·943
8 ...	·920	·961	·936	·786	·724	·668	·622	·747	·785	·879	·914	·916
9 ...	·958	·931	·969	·820	·740	·721	·643	·763	·794	·888	·911	·928
10 ...	·996	·911	·966	**·879**	·792	**·800**	·656	·783	·755	·870	·911	·969
11 ...	·982	·913	**30·001**	·875	·820	·783	·706	·778	·704	·880	·908	·957
12 ...	·976	·914	29·974	·826	·800	·698	·719	·769	**·689**	·909	·906	·914
13 ...	·945	·890	·911	·789	·814	·702	·704	·789	·702	·889	·922	·916
14 ...	·958	·854	·875	·829	·804	·729	·714	·793	·759	·845	·935	·914
15 ...	·957	**·818**	·878	·813	·797	·729	·665	·814	·847	·852	·938	·889
16 ...	·920	·833	·862	·820	·808	·677	·656	·802	·843	·863	·906	·872
17 ...	·912	·875	·855	·826	·811	·633	·606	·755	·831	·858	·903	·871
18 ...	·915	·866	·888	·823	**·831**	·614	·567	·734	·840	·823	·912	·894
19 ...	·955	·879	·846	·819	·786	·594	·539	·722	·818	·833	·900	·885
20 ...	·967	·880	·854	·833	·791	·485	**·494**	·700	·810	·835	·931	·856
21 ...	·926	·860	·863	·861	·781	**·447**	·516	·696	·808	·829	·940	**·854**
22 ...	·914	·872	·894	·843	·764	·521	·547	·690	·818	·815	·935	·899
23 ...	·945	·876	·869	·805	·766	·637	·534	·641	·831	·806	·927	·929
24 ...	·972	·900	·862	·812	·772	·708	·536	·586	·816	·807	·940	·936
25 ...	·955	·918	·902	·815	·739	·661	·614	·555	·784	·817	·955	·945
26 ...	·950	·950	·896	·810	·727	·646	·661	**·499**	·765	·819	·960	·954
27 ...	·991	·951	·857	·777	·741	·703	·640	·547	·767	·797	**30·004**	·948
28 ...	**30·015**	·909	·842	·768	**·721**	·734	·594	·633	·797	**·774**	29·994	·906
29 ...	29·972		**·830**	**·764**	·732	·696	·629	·686	·857	·803	·965	·886
30 ...	**·910**		·838	·804	·726	·669	·692	·681	**·883**	·818	·974	·897
31 ...	·978		·848		·725		**·770**	·698		·842		·927
Monthly mean ...	**29·951**	29·910	29·991	29·815	29·771	29·678	**29·624**	29·717	29·781	29·850	29·926	29·921
Annual variation.	+·131	+·090	+·081	−·005	−·049	−·142	−·196	−·103	−·039	+·030	+·106	+·101

Annual mean ... ... In. 29·820

TABLE Ib.—*Showing the mean diurnal inequality of the Barometric Pressure for each month of the year 1906, and for the whole year.*

Unity = 0·001 inch.

1906. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 7	+ 2	+ 11	+ 10	+ 5	+ 1	+ 7	+ 5	+ 6	+ 6	+ 3	0	+ 8	+ 5
1 7	− 10	− 2	− 7	− 8	− 14	− 9	− 13	− 10	− 9	− 9	− 13	− 4	− 9
2 7	− 23	− 17	− 22	− 21	− 25	− 24	− 25	− 22	− 24	− 18	− 23	− 16	− 22
3 7	− 31	− 27	− 28	− 29	− 28	− 27	− 30	− 29	− 29	− 19	− 28	− 25	− 27
4 7	− 30	− 29	− 26	− 25	− 24	− 26	− 30	− 29	− 26	− 15	− 22	− 22	− 25
5 7	− 21	− 23	− 14	− 13	− 13	− 19	− 23	− 21	− 16	− 3	− 10	− 13	− 16
6 7	− 3	− 5	+ 5	+ 5	+ 7	0	− 8	− 7	− 3	+ 15	+ 9	+ 3	+ 1
7 7	+ 21	+ 19	+ 27	+ 27	+ 27	+ 18	+ 8	+ 11	+ 17	+ 37	+ 32	+ 25	+ 22
8 7	+ 49	+ 41	+ 51	+ 48	+ 44	+ 29	+ 23	+ 27	+ 34	+ 55	+ 53	+ 51	+ 42
9 7	+ 68	+ 60	+ 61	+ 57	+ 52	+ 37	+ 34	+ 37	+ 43	+ 64	+ 67	+ 65	+ 54
10 7	+ 68	+ 64	+ 61	+ 57	+ 51	+ 37	+ 35	+ 38	+ 42	+ 59	+ 61	+ 60	+ 53
11 7	+ 47	+ 50	+ 46	+ 47	+ 42	+ 32	+ 31	+ 34	+ 35	+ 38	+ 38	+ 40	+ 40
12 7	+ 13	+ 21	+ 18	+ 26	+ 28	+ 21	+ 20	+ 20	+ 15	+ 10	+ 6	+ 7	+ 17
13 7	− 20	− 11	− 9	− 2	+ 7	+ 1	+ 7	+ 2	− 8	− 17	− 24	− 25	− 8
14 7	− 40	− 38	− 34	− 25	− 17	− 15	− 8	− 17	− 27	− 42	− 46	− 46	− 30
15 7	− 51	− 51	− 52	− 41	− 35	− 32	− 22	− 31	− 38	− 57	− 55	− 56	− 43
16 7	− 49	− 51	− 56	− 49	− 47	− 37	− 30	− 39	− 42	− 57	− 53	− 54	− 47
17 7	− 41	− 44	− 48	− 46	− 42	− 36	− 28	− 34	− 34	− 47	− 43	− 44	− 41
18 7	− 26	− 32	− 34	− 34	− 33	− 24	− 20	− 20	− 21	− 32	− 24	− 29	− 27
19 7	− 6	− 13	− 14	− 17	− 16	− 8	− 3	− 3	− 2	− 11	− 2	− 8	− 9
20 7	+ 13	+ 10	+ 6	− 1	+ 1	+ 8	+ 9	+ 11	+ 13	+ 6	+ 19	+ 13	+ 9
21 7	+ 25	+ 21	+ 21	+ 15	+ 13	+ 21	+ 22	+ 21	+ 28	+ 17	+ 27	+ 27	+ 21
22 7	+ 24	+ 24	+ 24	+ 20	+ 16	+ 26	+ 29	+ 25	+ 29	+ 16	+ 25	+ 26	+ 24
23 7	+ 15	+ 17	+ 20	+ 14	+ 13	+ 22	+ 24	+ 18	+ 22	+ 11	+ 14	+ 17	+ 17
Range ...	119	115	117	106	99	74	65	77	85	121	122	121	101

Temperature of the Air, 1906.

TABLE IIa.—*Daily and Monthly Means.*

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1 ...	69·4	73·2	77·3	78·7	**81·8**	**86·3**	82·9	81·1	80·7	81·0	81·0	76·8
2 ...	**68·2**	72·5	77·5	78·9	83·3	86·3	82·8	81·8	80·3	81·2	81·6	76·8
3 ...	69·4	70·9	76·3	79·2	83·2	86·2	**83·0**	81·9	79·8	80·7	82·0	76·7
4 ...	71·7	71·1	76·6	79·3	83·2	86·1	82·0	82·1	80·4	80·0	81·9	77·4
5 ...	74·5	71·3	76·1	79·1	83·8	86·2	81·2	81·2	81·1	79·8	81·7	77·8
6 ...	74·3	71·5	76·6	80·7	84·4	85·8	81·0	81·2	80·0	80·0	81·8	77·9
7 ...	72·9	72·2	77·0	80·0	84·0	83·6	82·1	80·9	79·1	80·7	81·2	77·4
8 ...	71·7	72·5	75·9	79·1	84·7	84·6	82·5	81·0	80·4	81·4	81·0	78·2
9 ...	70·0	72·6	76·0	**78·4**	84·4	84·2	80·4	80·7	80·9	81·5	80·5	**79·3**
10 ...	70·8	71·9	75·3	78·4	84·4	82·8	81·5	81·9	80·0	81·1	79·9	79·3
11 ...	72·3	71·0	75·3	79·0	84·9	80·9	81·3	80·8	79·4	82·4	79·7	78·2
12 ...	70·0	71·1	74·0	80·1	85·0	79·6	82·5	81·7	80·1	82·7	80·5	76·1
13 ...	71·5	72·1	**72·7**	80·1	85·6	82·3	81·0	81·0	80·8	81·9	80·7	76·8
14 ...	75·1	73·1	74·3	79·7	85·2	82·0	79·7	81·2	81·0	82·1	80·8	77·0
15 ...	75·2	73·7	74·5	79·3	84·8	80·9	80·7	82·0	80·0	81·2	80·8	75·9
16 ...	74·4	74·2	75·9	79·1	85·4	82·2	80·6	**82·4**	80·3	81·5	80·0	75·1
17 ...	75·7	71·5	76·2	79·8	85·2	80·1	**77·6**	82·4	80·6	81·1	80·8	**74·3**
18 ...	77·0	71·4	76·0	80·1	85·5	80·3	79·3	80·8	79·9	80·5	80·7	74·5
19 ...	**77·3**	73·0	75·5	80·2	85·4	80·1	79·6	80·2	80·8	80·2	80·7	74·4
20 ...	76·8	72·8	74·7	80·8	85·3	81·6	78·1	79·6	81·0	80·9	80·0	74·7
21 ...	73·5	75·3	75·5	81·4	85·3	**78·2**	78·6	80·2	**78·0**	81·4	80·4	76·1
22 ...	72·7	**78·0**	75·8	81·7	85·0	82·5	79·1	80·0	80·0	81·8	82·0	76·5
23 ...	72·2	74·0	76·5	82·8	85·7	82·3	78·6	79·7	80·7	**83·4**	82·1	77·1
24 ...	72·1	71·7	77·0	81·5	85·7	83·6	79·7	78·9	80·8	82·1	**82·3**	76·4
25 ...	72·4	**69·9**	77·9	81·6	86·3	83·5	80·6	78·1	80·7	81·9	81·7	76·7
26 ...	70·7	71·3	**79·8**	81·5	86·4	83·1	80·4	**77·3**	80·9	79·5	81·7	77·9
27 ...	69·8	72·1	79·4	83·4	**86·5**	83·3	80·5	79·0	**81·5**	**78·3**	80·2	76·4
28 ...	70·1	75·5	78·0	**83·5**	86·5	82·8	80·7	80·1	79·3	79·3	78·8	76·5
29 ...	71·7		78·0	82·7	86·2	83·5	81·6	80·9	80·7	78·7	77·7	76·1
30 ...	75·2		78·1	82·0	86·5	82·8	81·8	79·7	80·6	79·0	**77·4**	76·9
31 ...	74·6		78·4		86·4		81·9	80·3		79·5		77·2
Monthly mean ...	72·7	**72·5**	76·4	80·4	**85·0**	82·9	80·8	80·7	80·3	80·9	80·7	76·7
Annual variation.	−6·5	−6·7	−2·8	+1·2	+5·8	+3·7	+1·6	+1·5	+1·1	+1·7	+1·5	−2·5

Annual mean ... ... 79·2 °

TABLE IIb.—*Showing the mean diurnal inequality of the Temperature of the air for each month of the year 1906, and for the whole year.*

1906. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.	°	°	°	°	°	°	°	°	°	°	°	°	°
0 2	−2·6	−1·9	−2·1	−2·0	−2·1	−1·2	−0·6	−0·9	−1·0	−1·9	−2·2	−2·5	−1·7
1 2	−3·1	−2·5	−2·5	−2·3	−2·5	−1·4	−0·7	−1·1	−1·3	−2·3	−2·6	−3·0	−2·1
2 2	−3·2	−2·6	−2·7	−2·7	−2·7	−1·7	−0·7	−1·2	−1·4	−2·6	−2·7	−3·2	−2·3
3 2	−3·6	−3·2	−3·1	−3·1	−2·9	−1·7	−0·9	−1·3	−1·7	−3·0	−3·3	−3·7	−2·6
4 2	−3·8	−3·5	−3·4	−3·4	−3·1	−1·8	−1·0	−1·4	−1·7	−3·3	−3·5	−3·9	−2·8
5 2	−4·0	−3·9	−3·8	−3·9	**−3·4**	**−1·9**	**−1·2**	**−1·6**	**−1·9**	**−3·7**	−4·1	−4·4	**−3·1**
6 2	−4·1	−4·1	**−4·0**	**−4·0**	−3·1	−1·6	−1·1	−1·5	−1·9	−3·5	**−4·3**	**−4·6**	−3·1
7 2	**−4·3**	**−4·2**	−3·5	−2·6	−2·0	−1·1	−0·9	−1·4	−1·6	−3·2	−4·0	−4·4	−2·8
8 2	−3·1	−2·5	−1·4	−0·4	−0·2	−0·3	−0·3	−0·6	−0·7	−1·8	−2·8	−3·1	−1·4
9 2	−1·4	−0·6	+0·4	+0·9	+1·2	+0·4	0	+0·2	+0·1	−0·4	−1·2	−1·4	−0·1
10 2	+1·0	+1·6	+2·2	+2·4	+2·5	+1·6	+0·9	+0·6	+1·3	+1·5	+1·0	+0·9	+1·5
11 2	+3·3	+3·1	+3·0	+3·2	+3·2	+2·2	+1·1	+1·3	+2·0	+3·0	+2·8	+3·0	+2·6
12 2	+5·0	+4·5	+4·0	+4·0	+3·9	+2·4	+1·5	+1·5	+2·3	+3·9	+4·8	+5·1	+3·6
13 2	+5·8	+4·9	+4·2	+4·2	+4·1	+2·5	+1·6	+1·6	**+2·7**	+4·5	+5·5	+6·2	+4·0
14 2	**+5·9**	**+5·3**	**+4·5**	**+4·6**	**+4·3**	**+2·6**	**+1·7**	**+2·0**	+2·7	**+4·7**	**+5·9**	**+6·4**	**+4·2**
15 2	+5·5	+4·7	+4·3	+4·2	+3·7	+2·1	+1·4	+1·9	+2·1	+4·3	+5·5	+5·8	+3·8
16 2	+5·0	+4·0	+3·8	+3·5	+3·2	+1·8	+0·8	+1·8	+1·9	+3·6	+4·7	+4·9	+3·2
17 2	+3·1	+2·7	+2·7	+2·3	+2·0	+1·0	+0·3	+1·0	+1·1	+2·0	+2·7	+3·0	+2·0
18 2	+1·5	+1·3	+1·2	+0·8	+0·5	+0·1	+0·1	+0·3	+0·3	+0·8	+1·4	+1·6	+0·8
19 2	+0·7	+0·4	+0·1	−0·3	−0·5	−0·3	−0·4	−0·1	−0·1	+0·2	+0·8	+0·9	+0·1
20 2	+0·3	+0·1	−0·4	−0·8	−0·9	−0·6	−0·5	−0·3	−0·4	0·2	+0·3	+0·5	−0·2
21 2	−0·6	−0·4	−0·9	−1·2	−1·2	−0·9	−0·6	−0·6	−0·6	−0·8	−0·6	−0·3	−0·7
22 2	−1·3	−0·8	−1·2	−1·4	−1·4	−0·8	−0·8	−0·5	−0·7	−1·1	−1·3	−1·0	−1·0
23 2	−2·2	−1·6	−1·6	−1·7	−1·8	−1·3	−0·8	−0·8	−0·9	−1·6	−2·1	−2·0	−1·5
Range ...	10·2	9·5	8·5	8·6	7·7	4·5	2·9	3·6	4·6	8·4	10·2	11·0	7·3

Temperature of the Air, 1906.

TABLE IIc.—*Showing the Maximum Temperature of the air on each day during the year 1906.*

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1	79·1	81·6	87·1	87·1	**89·2**	92·6	**87·3**	84·7	85·7	87·1	88·2	86·6
2	**77·4**	79·3	**90·8**	86·3	90·2	92·3	85·9	85·5	85·6	87·5	88·2	87·3
3	78·2	79·6	84·1	87·2	90·6	92·2	86·1	85·6	85·3	87·1	88·1	86·6
4	81·6	79·8	84·1	86·7	90·2	93·0	86·7	85·2	85·1	87·1	87·4	87·8
5	84·7	80·2	82·8	**85·9**	90·4	93·1	84·8	86·0	86·1	86·3	89·2	88·8
6	83·3	80·1	84·2	89·3	90·3	**93·2**	86·1	85·3	84·4	86·7	89·5	88·2
7	81·3	81·1	85·0	86·5	90·2	91·2	86·3	85·0	82·0	88·1	89·1	88·0
8	80·4	81·6	84·1	86·9	90·9	91·2	87·0	84·4	85·3	88·5	89·6	90·4
9	79·4	81·2	84·0	86·1	90·7	89·2	84·0	85·1	85·8	88·7	89·1	**91·1**
10	80·0	80·7	82·8	86·5	91·9	86·5	84·9	86·0	84·7	88·7	88·1	90·0
11	81·1	79·8	82·6	87·1	91·3	88·8	84·1	85·0	83·4	89·3	89·1	87·2
12	80·8	81·1	82·6	88·6	91·1	84·0	86·9	85·9	84·5	91·3	90·2	85·5
13	81·8	80·0	82·1	87·0	91·9	88·6	83·8	85·8	85·3	89·6	90·2	86·1
14	85·9	80·1	83·2	87·0	91·3	89·1	84·1	85·9	85·7	89·3	91·4	87·1
15	85·2	80·7	**80·9**	87·4	91·2	85·0	85·0	86·3	85·3	89·1	89·4	85·6
16	86·5	82·7	83·7	86·0	91·3	88·1	84·1	**87·8**	85·1	89·8	89·3	84·4
17	87·9	**78·3**	83·6	86·6	91·3	81·6	**80·0**	87·1	85·5	89·4	89·7	83·1
18	**89·0**	80·0	84·1	86·7	92·2	83·4	83·6	86·0	84·7	89·1	89·1	**82·1**
19	84·0	81·1	84·2	87·0	92·2	83·1	82·4	85·1	86·5	88·9	90·7	83·1
20	83·1	80·5	82·1	87·7	91·5	86·9	80·2	84·4	**87·5**	91·2	88·7	84·0
21	79·9	82·5	83·1	88·5	92·0	**80·0**	82·6	85·9	**89·5**	92·6	90·0	85·0
22	80·0	85·2	83·2	88·3	91·8	86·4	81·5	82·8	86·1	91·9	91·7	85·4
23	79·2	82·0	83·2	91·1	92·1	86·8	80·4	84·0	86·1	**94·0**	**91·8**	85·3
24	80·2	80·3	85·1	87·8	92·7	87·6	81·5	83·4	85·7	90·5	91·1	84·7
25	80·8	80·4	85·8	90·0	92·9	87·4	84·6	80·3	86·0	92·1	90·2	85·1
26	80·1	82·8	88·1	90·2	92·8	87·1	83·9	**78·9**	86·4	88·4	91·2	88·1
27	79·5	83·0	87·4	**91·5**	92·5	86·6	84·1	81·5	86·2	**86·1**	90·2	87·1
28	79·9	**90·0**	85·5	91·5	92·5	86·7	84·5	83·2	81·9	88·1	88·6	87·8
29	82·1		85·0	90·6	92·2	87·1	85·6	85·1	85·2	87·1	87·1	85·7
30	88·9		85·1	89·9	**93·0**	86·2	86·0	81·2	86·1	88·1	**87·1**	84·1
31	82·5		88·1		92·4		86·1	83·3		88·1		85·5
Monthly Mean	82·1	**81·3**	84·4	88·0	**91·5**	87·8	84·3	84·6	85·1	89·0	89·4	86·3

Annual mean ... ... ° 86·1

The greatest maximum temperature recorded during the year (that of 23rd October) was ... 94·0

TABLE IId.—*Showing the Minimum Temperature of the air on each day during the year 1906.*

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1	61·7	67·3	68·0	72·8	**76·9**	**83·0**	79·4	78·4	77·6	77·4	77·4	69·8
2	**60·1**	70·1	71·3	74·2	78·2	82·8	**80·4**	79·2	78·1	78·4	**78·8**	70·3
3	63·2	66·2	70·3	**72·3**	78·2	82·5	80·2	78·7	77·9	77·4	78·6	70·8
4	64·1	64·5	72·3	74·4	78·1	82·4	79·1	80·1	77·4	76·4	78·4	71·4
5	68·4	62·7	72·1	74·5	78·2	82·4	78·4	77·5	78·4	76·4	77·8	72·5
6	67·6	64·7	70·6	74·4	81·0	82·6	77·5	79·2	77·0	75·7	76·3	73·3
7	68·3	65·4	72·1	75·0	79·1	78·9	77·5	76·4	76·6	77·1	75·6	72·3
8	66·5	67·1	70·8	74·6	80·4	79·4	79·1	79·2	77·4	78·3	75·5	70·3
9	63·1	66·0	70·1	75·2	80·2	77·5	78·2	76·3	76·9	**78·5**	74·8	72·8
10	63·6	67·4	71·3	74·1	80·2	80·1	78·0	78·4	77·0	76·4	74·5	**75·4**
11	63·3	65·7	72·8	74·1	80·4	77·8	78·6	78·4	76·5	78·2	73·3	71·5
12	62·0	64·5	72·1	75·3	81·5	76·5	79·2	78·4	78·4	78·4	74·4	70·1
13	63·1	66·7	**67·7**	75·8	82·4	**75·2**	79·4	79·2	76·4	77·4	74·9	71·3
14	70·2	68·3	69·8	74·4	82·0	78·4	77·2	76·7	78·4	78·4	74·9	71·3
15	71·1	69·1	71·1	74·6	80·4	75·5	77·2	78·4	77·4	77·0	75·8	**69·3**
16	67·1	70·6	71·1	76·1	81·2	78·2	76·6	79·4	76·3	76·8	75·0	69·3
17	68·1	67·4	71·5	75·2	80·6	78·4	76·0	**80·4**	77·4	76·4	75·4	70·1
18	70·4	66·2	71·3	76·1	81·3	75·8	76·2	78·2	77·4	77·0	75·1	70·3
19	73·2	68·3	69·3	75·0	81·2	76·4	78·1	78·2	77·0	75·7	76·3	70·3
20	**74·1**	67·0	70·1	75·4	80·7	78·0	75·4	**75·4**	77·5	76·4	75·4	69·3
21	70·3	68·3	70·9	76·3	81·4	77·0	**75·0**	76·6	**75·4**	76·1	75·1	71·1
22	68·2	**75·2**	71·8	77·3	81·3	76·7	76·8	77·8	77·4	76·2	76·4	71·1
23	67·2	70·3	71·9	76·1	81·8	77·2	76·3	77·4	78·4	78·0	77·2	72·1
24	67·6	66·5	72·3	77·2	81·3	79·9	77·2	76·4	77·4	76·0	77·5	71·7
25	68·1	**62·0**	72·6	76·3	82·1	81·2	77·3	76·7	77·7	77·3	77·5	71·3
26	64·1	63·3	74·4	76·4	82·4	79·2	77·3	76·3	77·5	74·6	77·0	73·5
27	63·3	65·0	**76·2**	77·4	82·6	76·8	77·1	75·9	**78·5**	74·2	74·4	71·5
28	64·3	67·0	73·8	78·0	**83·0**	80·8	77·2	76·4	76·1	73·1	72·3	69·9
29	63·1		72·3	78·3	83·0	80·4	79·6	78·4	76·1	73·1	72·3	70·1
30	67·3		73·3	**78·4**	82·9	78·3	79·2	78·4	77·0	**72·2**	**72·1**	72·5
31	70·0		71·8		82·9		78·6	77·4		75·2		73·3
Monthly Mean	**66·6**	66·9	71·5	75·5	**80·9**	79·0	77·8	77·9	77·3	76·4	75·7	71·3

Annual mean ... ... ° 74·7

The least minimum temperature recorded during the year (that of 2nd January) was ... 60·1

Pressure of Vapour, 1906.

TABLE IIIa.—*Daily and Monthly Means.*

TABLE IIIb.—*Showing the mean diurnal inequality of the Pressure of Vapour for each month of the year 1906, and for the whole year.*

Unity = 0·001 inch.

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	0·461	0·634	**0·546**	**0·732**	0·883	0·902	0·948	0·898	**0·900**	0·848	0·854	0·655
2 ...	·427	·574	·684	·750	·916	·887	·952	·881	·896	·863	·855	·593
3 ...	·470	·525	·710	·762	·901	·879	**·958**	·892	·889	·845	·867	·645
4 ...	·540	·502	·624	·771	·909	**·870**	·951	·896	·888	·857	·872	·653
5 ...	·601	·504	·668	·808	·939	·883	·936	·896	·873	·835	**·876**	·612
6 ...	·629	·550	·633	·768	·940	·885	·936	·875	·869	·839	·802	·603
7 ...	·529	·595	·630	·831	·926	·912	·953	·888	·857	·869	·793	·554
8 ...	·589	·640	·676	·831	·929	**·980**	·955	·869	·870	·908	·756	·628
9 ...	·457	·609	·621	·791	·899	·937	·933	·880	·871	·907	·742	·650
10 ...	·499	·543	·726	·749	·914	·017	·936	·890	·866	·899	·736	·644
11 ...	·617	·469	·674	·758	**·947**	·908	·929	·892	·856	**·956**	·698	·652
12 ...	·376	·504	·629	·763	·934	·918	·927	·876	·861	·910	·706	·585
13 ...	·522	·608	·572	·777	·922	·941	·912	·879	·845	·830	·716	·642
14 ...	·636	·603	·636	·791	·892	·933	·902	·883	·836	·853	·713	·652
15 ...	·487	·621	·677	·793	**·861**	·882	·918	·890	·837	·859	·699	·602
16 ...	·500	·707	·685	·815	·882	·920	·918	·894	·849	·859	·741	·634
17 ...	·541	·581	·691	·828	·868	·920	**·871**	·895	·835	·835	·747	·659
18 ...	·645	·563	·686	·810	·869	·929	·892	·864	·841	·818	·717	·662
19 ...	**·748**	·602	·657	·824	·869	·925	·922	·882	·840	·812	·723	·651
20 ...	·741	·579	·684	·863	·877	·959	·894	·898	·840	·898	·684	·583
21 ...	·660	·666	·675	**·878**	·891	·910	·906	·904	·836	·807	·683	·663
22 ...	·635	**·803**	·711	·864	·880	·949	·912	·916	·873	·790	·703	·662
23 ...	·644	·600	·730	·781	·869	·965	·888	·923	·880	·674	·722	·597
24 ...	·633	·412	·739	·874	·880	·966	·900	**·928**	·850	·671	·759	·647
25 ...	·573	**·329**	**·781**	·835	·930	·959	·919	·909	**·820**	·717	·788	·699
26 ...	**·375**	·378	·743	·812	·944	·958	·925	·888	·839	·759	·737	·701
27 ...	·446	·420	·714	·776	·940	·970	·907	**·856**	·835	·785	·629	**·534**
28 ...	·452	·470	·758	·811	·928	·956	·897	·860	·832	·722	**·583**	·550
29 ...	·476		·763	·832	·905	·944	·917	·897	·828	·697	·623	·652
30 ...	·564		·773	·868	·903	·938	·916	·892	·827	**·658**	·640	·749
31 ...	·675		·690		·890		·910	·890		·749		**·758**
Monthly Mean ...	**0·553**	0·557	0·684	0·805	0·905	**0·927**	0·921	0·890	0·855	0·815	0·739	0·638
Annual Variation.	−·221	−·217	−·090	+·031	+·131	+·153	+·147	+·116	+·081	+·041	−·035	−·136

1906. Bombay Civil. Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 2	− 10	− 1	+ 3	− 4	− 5	− 10	− 5	− 9	− 13	− 1	+ 13	− 6	− 4
1 2	− 12	− 3	+ 1	− 14	− 11	− 10	− 3	− 11	− 15	− 3	+ 16	− 12	− 6
2 2	− 17	+ 1	+ 3	− 14	− 16	− 16	− 9	− 9	− 12	− 4	+ 11	− 27	− 9
3 2	− 33	− 10	− 8	− 25	− 22	− 19	− 15	− **18**	− **23**	− 20	− 14	− 34	− 20
4 2	− 29	− 16	− 13	− 28	− 23	− **21**	− 12	− 18	− 17	− 20	− 13	− 36	− 20
5 2	− 33	− 20	− 23	− 34	− **28**	− 20	− **20**	− 18	− 17	− 23	− 32	− 50	− **26**
6 2	− 37	− 16	− **31**	− **38**	− 24	− 14	− 13	− 14	− 12	− 26	− 30	− **65**	− **27**
7 2	− **38**	− **21**	− 21	− 30	− 13	− 11	− 17	− 10	− 2	− 22	− 25	− 53	− 22
8 2	− 35	− 17	− 9	− 12	− 7	+ 3	− 1	+ 4	+ 12	− **32**	− 22	− 44	− 13
9 2	− 25	− 9	− 12	− 8	− 3	+ 8	+ 1	+ 10	+ 20	− 30	− 28	− 37	− 9
10 2	− 16	+ 1	− 10	+ 13	+ 2	+ 18	+ 18	+ 18	+ **37**	− 24	− 21	− 24	+ 1
11 2	− 20	− 9	+ 3	+ 22	+ 7	+ 18	+ 21	+ **24**	+ 30	− 32	− 40	− 35	− 1
12 2	− 12	− 1	+ 19	+ **35**	+ 16	+ **27**	+ **30**	+ 30	+ 26	− 22	− **45**	− 48	+ 4
13 2	+ 14	+ 9	+ **23**	+ 32	+ 17	+ 21	+ 24	+ 19	+ 26	+ 17	− 24	− 24	+ 13
14 2	+ 42	+ **22**	+ 21	+ 35	+ **22**	+ 27	+ 25	+ 23	+ 22	+ 27	0	+ 34	+ **25**
15 2	+ 47	+ 17	+ 15	+ 23	+ 18	+ 13	+ 18	+ 16	+ 11	+ 31	+ 25	+ 55	+ 24
16 2	+ **52**	+ 15	+ 11	+ 12	+ 21	+ 10	+ 3	+ 11	+ 9	+ **45**	+ 33	+ 72	+ 24
17 2	+ 45	+ 8	+ 5	+ 2	+ 18	+ 4	− 4	− 3	− 3	+ 25	+ 33	+ 72	+ 17
18 2	+ 37	+ 5	+ 1	− 2	+ 7	− 4	− 1	− 8	− 10	+ 21	+ 41	+ **75**	+ 13
19 2	+ 36	+ 2	+ 1	0	0	− 1	− 8	− 9	− 18	+ 23	+ 41	+ 69	+ 11
20 2	+ 27	+ 9	+ 1	+ 6	+ 3	− 6	− 9	− 9	− 12	+ 30	+ **46**	+ 70	+ 13
21 2	+ 16	+ 12	+ 4	+ 14	+ 3	− 9	− 11	− 10	− 21	+ 25	+ 29	+ 45	+ 8
22 2	+ 8	+ 15	+ 6	+ 9	+ 6	− 8	− 9	0	− 11	+ 15	+ 7	+ 7	+ 4
23 2	− 2	+ 1	0	+ 1	− 2	− 8	− 11	− 07	16	+ 2	− 3	− 9	− 4
Range ...	90	43	54	73	50	48	50	42	60	77	91	140	52

Annual mean ... ... Inch. 0·774

TABLE IV*a*.—*Daily and Monthly Means.*

1906. Date.	January.	February.	March.	April.	May.	June.	July	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	0·263	870·1	**0·403**	0·252	**0·204**	0·354	0·177	0·166	0·149	0·212	**0·205**	0·271
2 ...	·268	·224	·266	·239	·226	·369	·169	·205	·140	·202	·224	·336
3 ...	·254	·234	·202	·240	·238	·374	·172	·198	·128	·208	·227	·280
4 ...	·245	·264	·293	·235	·231	**·379**	·144	·202	·150	·169	·213	·296
5 ...	·257	·268	·233	·190	·224	·372	·128	·170	·188	·184	·208	·348
6 ...	·224	·228	·285	·284	·237	·343	·125	·192	·152	·186	·286	·359
7 ...	·282	·201	·294	·196	·245	·242	·146	·167	·137	·183	·277	**·392**
8 ...	·192	·158	·222	**·166**	·267	·214	·157	·191	·169	·167	·307	·348
9 ...	·282	·195	·279	·182	·285	·240	·104	·167	·181	·170	·306	·359
10 ...	·261	·241	**·151**	·222	·271	·205	·140	·201	·160	·165	·292	·366
11 ...	·181	·294	·206	·235	·255	·149	·139	·161	·148	**·154**	·323	·321
12 ...	·362	·261	·212	·270	·273	·092	**·183**	·206	·167	·206	·344	·320
13 ...	·258	·183	·234	·253	·308	·166	·147	·181	·206	·263	·339	·286
14 ...	·242	·213	·214	·227	·323	·165	·113	·185	·224	·245	·345	·281
15 ...	**·393**	·214	·178	·213	·340	·173	·129	·204	·188	·210	·358	·300
16 ...	·360	**·143**	·215	·181	·340	·181	·126	**·216**	·186	·220	·287	·243
17 ...	·358	·197	·218	·191	·348	·108	·077	·210	·209	·231	·310	·191
18 ...	·292	·209	·216	·222	·356	·106	·108	·188	·181	·229	·340	·195
19 ...	·190	·211	·229	·209	·352	·100	·087	·147	·211	·224	·331	·204
20 ...	·184	·229	·178	·193	·340	·123	**·068**	·114	·218	·224	·343	·280
21 ...	·167	·215	·211	·199	·327	**·055**	·072	·127	**·121**	·270	·363	·242
22 ...	·172	·158	·185	·221	·328	·162	·082	·106	·154	·301	·396	·255
23 ...	**·147**	·241	·186	·345	·366	·136	·089	·093	·167	**·479**	·382	·337
24 ...	·157	·366	·192	·205	·353	·186	·115	·062	·202	·428	·349	·268
25 ...	·225	·408	·179	·250	·328	·189	·128	·053	·231	·378	·299	·223
26 ...	·379	·396	·277	·266	·316	·174	·114	**·048**	·217	·253	·352	·262
27 ...	·286	·372	·290	**·373**	·324	·170	·134	·136	**·241**	·188	**·408**	·380
28 ...	·290	**·427**	·204	·341	·337	·166	·151	·161	·169	·285	·408	·370
29 ...	·310		·200	·290	·348	·204	·162	·159	·221	·289	·333	·253
30 ...	·323		·194	·226	·362	·185	·171	·121	·218	·341	·308	·180
31 ...	·185		·289		**·372**		·180	·144		·261		**·179**
Monthly Mean.	0·258	0·248	0·230	0·237	0·304	0·203	**0·130**	0·158	0·181	0·243	**0·315**	0·288
Annual Variation.	+·025	+·015	−·003	+·004	+·071	−·030	−·103	−·075	−·052	+·010	+·082	+·055

Annual mean ... ... In. 0·233

TABLE IV*b*.—*Showing the mean diurnal inequality of the Additional Capacity of the Air for each month of the year 1906 and for the whole year.*

Unity = 0·001 inch.

1906. Bombay Civil Tim.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 2 ...	− 63	− 51	− 68	− 65	− 81	− 36	− 15	− 21	− 21	− 65	− 92	− 76	− 54
1 2 ...	− 73	− 67	− 76	− 66	− 87	− 45	− 21	− 26	− 29	− 77	− 112	− 82	− 63
2 2 ...	− 71	− 73	− 86	− 78	− 89	− 46	− 15	− 31	− 38	− 84	− 107	− 73	− 66
3 2 ...	− 65	− 76	− 86	− 80	− 92	− 45	− 16	− 26	− 35	− 81	− 99	− 80	− 65
4 2 ...	− 72	− 79	− 89	− 86	− 97	− 48	− 20	− 29	− 42	− 91	− 106	− 83	− 70
5 2 ...	− 74	− 83	− 90	− 95	− 102	− 50	− 19	− 36	− 49	− 101	− 105	− 85	− 74
6 2 ...	− 73	− 91	− 86	− 93	− 96	− 46	− 23	− 38	− 52	− 102	− 113	− 72	− 74
7 2 ...	− 75	− 91	− 82	− 60	− 65	− 33	− 14	− 36	− 53	− 85	− 110	− 80	− 65
8 2 ...	− 50	− 52	− 35	− 7	− 8	− 16	− 10	− 24	− 37	− 33	− 75	− 55	− 33
9 2 ...	− 16	− 11	+ 20	+ 36	+ 43	+ 6	0	− 3	− 21	+ 14	− 19	− 13	+ 3
10 2 ...	+ 38	+ 38	+ 74	+ 66	+ 92	+ 39	+ 15	+ 4	+ 5	+ 75	+ 49	+ 44	+ 45
11 2 ...	+109	+ 92	+ 88	+ 88	+117	+ 63	+ 29	+ 25	+ 37	+137	+134	+125	+ 8
12 2 ...	+157	+126	+105	+104	+138	+ 65	+ 26	+ 35	+ 55	+173	+215	+208	+117
13 2 ...	+155	+131	+110	+114	+143	+ 75	+ 35	+ 40	+ 67	+145	+222	+224	+122
14 2 ...	+129	+122	+121	+126	+148	+ 71	+ 38	+ 49	+ 70	+142	+212	+174	+117
15 2 ...	+111	+111	+118	+122	+125	+ 69	+ 35	+ 52	+ 63	+125	+173	+130	+103
16 2 ...	+ 88	+ 93	+107	+110	+101	+ 59	+ 28	+ 50	+ 53	+ 81	+131	+ 81	+ 82
17 2 ...	+ 38	+ 63	+ 77	+ 76	+ 57	+ 34	+ 16	+ 36	+ 41	+ 43	+ 55	+ 16	+ 46
18 2 ...	− 2	+ 23	+ 31	+ 24	+ 7	+ 8	+ 6	+ 19	+ 20	+ 4	+ 1	− 34	+ 9
19 2 ...	− 23	+ 3	− 3	− 14	− 25	− 13	− 4	+ 5	+ 10	− 20	− 22	− 47	− 13
20 2 ...	− 26	− 11	− 15	− 35	− 41	− 20	− 9	0	− 3	− 42	− 43	− 63	− 26
21 2 ...	− 37	− 28	− 34	− 59	− 55	− 25	− 10	− 11	− 2	− 54	− 57	− 61	− 36
22 2 ...	− 48	− 42	− 45	− 61	− 64	− 33	− 17	− 19	− 17	− 56	− 54	− 45	− 42
23 2 ...	− 61	− 49	− 52	− 62	− 71	− 43	− 17	− 20	− 17	− 58	− 70	− 58	− 48
Range ...	232	222	211	221	250	125	61	90	123	275	335	309	196

Rainfall, 1906.

TABLE Va.—*Total fall of Rain (in inches) as measured by F. Chambers's self-registering Gauge, the funnel of which is 28 feet above the ground.*

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
		In.				In.	In.	In.	In.			
1	...	...	...	...	...	..	...	0·08	0·09	0·21	...	...	...
2	...	...	...	...	..	...	...	0·05	...	0·36	...	...	...
3	...	...	...	...	...	...	...	0·09	...	0·12	...	...	..
4	...	...	...	...	...	..	..	0·56	0·05	0·07	...	...	...
5	...	...	...	...	...	...	0·34	0·76	0·28	0·01	...	...	..
6	...	...	...	...	...	...	...	0·29	0·50	0·16	...	...	...
7	...	...	...	...	...	...	0·27	0·03	0·19	0·46	...	...	...
8	...	...	...	...	...	...	0·11	0·09	...	0·08	...	...	...
9	...	...	...	...	...	...	...	0·62	0·32	0·08	...	...	...
10	...	...	...	...	...	...	...	...	0·04	0·33	...	...	...
11	...	.	...	...	...	...	0·41	...	0·22	0·07	...	...	...
12	...	...	...	...	...	..	3·26	...	...	0·03	...	...	...
13	...	...	...	...	...	...	0·06	0·46	0·39	0·01	...	...	...
14	...	...	...	...	...	...	0·51	1·28	0·20	...	...	...	...
15	...	...	...	...	...	...	...	0·86	...	...	...	...	..
16	...	...	0·13	...	...	...	0·02	1·08	...	...		...	...
17	...	..	...	...	...	..	0·53	1·15	...	0·01	...	..	...
18	...	...	...	...	...	...	0·78	0·10	0·04	0·03	...	...	...
19	...	...	...	...	...	...	0·50	1·29	0·10	...	...	...	...
20	...	...	...	...	...	...	0·07	3·73	2·51	0·04	...	...	...
21	...	...	...	...	...	...	2·24	1·28	0·11	1·67	...	...	..
22	...	...	...	...	...	...	0·27	1·22	1·97	...	...	...	...
23	...	...	...	...	...	...	1·48	0·86	0·46	..	...	...	...
24	...	...	...	...	...	...	0·02	0·65	4·26	...	...	...	...
25	...	...	...	...	...	...	0·06	0·52	2·99	...	...	...	...
26	...	...	...	...	...	...	0·88	0·52	4·87	...	...	...	...
27	...	...	...	...	...	...	0·24	0·20	0·61	...	...	...	...
28	...	...	...	...	...	...	0·21	0·04	0·26	0·12	...	...	...
29	...	...		...	...	...	...	0·01	0·01	...	...	...	...
30	...	...		...	...	...	0·31	0·01	0·09	...	...	...	...
31	...	...		...		...		0·05	0·07		...		...
Monthly Total ...	...	0·13	...	...	...	12·57	17·88	20·63	3·86	...	...	...	...
Number of rainy days.	...	1	...	...	...	21	28	24	18	...	...	...	..

Total fall of rain in the year ... ... 55·07 inches.
Total number of rainy days in the year 92
The greatest daily fall of rain in the year (that of 26th August) was ... ... 4·87
No rain fell in the months of January, March, April, May, October, November and December, nor on any of the days left blank in the above table.

TABLE Vb.—*Total fall of Rain (in inches) as measured by Newman's Gauge, placed 4½ feet above the ground.*

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
		In.				In.	In.	In.	In.			
1	...	...	...	..	...	...	...	0·09	0·08	0·21	...	...	...
2	...	...	...	...	...	...	...	0·06	...	0·35	...	...	...
3	...	...	..	...	...	...	...	0·10	...	0·12	...	...	...
4	...	...	...	...	...	...	...	0·57	0·07	0·07	...	...	...
5	...	...	...	...	...	...	...	0·78	0·30	0·01	...	...	...
6	...	..	...	...	...	...	0·43	0·32	0·52	0·16	...	...	...
7	...	...	...	...	...	...	0·28	0·03	0·18	0·46	...	...	...
8	...	...	...	...	...	...	0·17	0·05	...	0·08	...	...	...
9	...	..	...	...	...	...	...	0·66	0·33	0·08	...	...	...
10	...	...	...	...	...	...	0·01	...	0·05	0·36	...	...	...
11	...	.	...	...	...	...	0·42	...	0 22	0·08	...	...	...
12	...	...	...	...	...	...	3·48	...	...	0·04	...	...	...
13	...	...	...	...	...	...	0·08	0·47	0·37	0·01	...	...	...
14	...	...	...	...	...	...	0·53	1·31	0·22	...	...	...	...
15	...	...	...	...	...	...	...	0·85	...	...	...	...	...
16	...	..	0·14	...	...	...	0·02	1·10	0·01	...	...	...	...
17	...	...	...	...	...	...	0·51	1·15	...	0·01	...	...	...
18	...	...	..	...	...	...	0·80	0·10	0·04	0·03	...	...	...
19	...		...	...	...	...	0·52	1·32	0·11	...	...	...	...
20	...	...	...	...	...	...	0·08	3·68	2·59	0·04	...	...	...
21	...	...	...	...	...	...	2·31	1·31	0·12	1·71	...	...	...
22	...	..	...	...	...	...	0 31	1·28	1·98	...	...	...	...
23	...	...	0·01	...	...	...	1·51	0·87	0·46	...	...	...	...
24	...	...	...	...	...	...	0·02	0·64	4·43	...	...	...	...
25	...	...	...	...	...	...	0·06	0·51	2·93	...	...	...	...
26	...	...	...	...	...	...	0 90	0·52	4·89	...	...	...	...
27	...	...	...	...	...	...	0·24	0·22	0·56	...	...	...	...
28	...	...	...	...	...	...	0·23	0·04	0·26	0·12	...	...	...
29	...	...		...	...	...	...	0·01	0·01	...	...	...	...
30	...	...		...	...	...	0·29	0·01	0·10	...	...	...	...
31	...	...		...		...		0·05	0·08		...		...
Monthly Total ...	...	0·15	...	...	...	13·20	18·10	20·91	3·94	...	...	...	...
Number of rainy days.	...	2	...	...	...	22	28	25	18	...	...	...	...

Total fall of rain in the year ... ... 56·30 inches.
Total number of rainy days in the year 95
The greatest daily fall of rain in the year (that of 26th August) was ... 4·89
No rain fell in the months of January, March, April, May, October, November and December, nor on any of the days left blank in the above table.

Velocity of Wind, 1906.

Robinson Beckley's Anemograph.

TABLE VI*a*.—*Mean velocity of the wind in miles per hour, without regard to the Direction from which it blew for each day of Bombay Civil Time; also the mean monthly velocity and its variation from the mean of the year.*

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
1 ...	9·0	11·4	8·3	10·6	8·8	8·1	17·4	12·0	9·7	7·8	5·9	8·2
2 ...	7·8	14·8	5·2	11·0	10·2	8·0	18·2	15·0	9·4	8·8	3·7	8·3
3 ...	9·2	11·4	6·8	8·7	6·9	7·7	16·1	12·4	9·0	8·9	4·3	6·7
4 ...	7·6	11·5	12·5	9·5	8·3	7·8	12·3	10·3	12·5	6·7	5·2	7·9
5 ...	10·6	8·0	12·5	9·3	7·7	8·7	12·4	9·8	17·9	5·9	6·2	10·2
6 ...	8·7	8·5	11·7	10·3	7·1	9·1	9·8	9·1	15·0	8·4	7·6	12·0
7 ...	10·2	6·3	11·0	7·2	7·3	10·7	9·6	13·2	11·6	7·8	4·3	9·8
8 ...	9·9	8·0	11·0	8·9	6·0	8·5	7·1	11·4	8·2	6·1	6·5	9·6
9 ...	8·3	11·2	12·4	12·0	5·9	17·0	8·2	10·0	9·1	6·2	6·8	8·9
10 ...	9·6	9·5	12·4	15·4	6·8	12·7	14·7	8·2	14·7	8·0	6·1	8·9
11 ...	9·1	10·2	8·3	14·7	7·3	9·0	12·3	7·1	16·2	5·5	6·2	8·9
12 ...	12·7	7·8	8·6	13·7	7·1	12·0	7·8	5·6	12·3	6·4	6·6	10·1
13 ...	5·7	4·4	9·2	7·4	8·2	8·3	8·3	6·7	13·9	7·8	7·1	6·3
14 ...	10·2	6·3	9·9	9·5	8·4	9·6	11·6	6·3	8·2	8·5	7·6	8·0
15 ...	14·1	5·2	5·9	12·4	6·2	10·9	17·0	6·3	5·7	7·9	7·6	6·4
16 ...	11·5	9·8	5·4	10·2	6·5	10·5	15·7	10·0	6·9	7·2	7·0	6·5
17 ...	10·6	7·8	6·4	6·7	6·7	9·8	10·6	11·0	5·4	6·6	5·9	7·0
18 ...	6·4	9·4	7·4	7·5	6·4	10·7	11·6	7·3	7·2	7·3	6·4	5·5
19 ...	5·4	9·6	9·1	6·2	6·9	7·8	13·6	6·0	7·2	7·3	6·3	10·2
20 ...	7·6	10·5	7·7	5·8	8·3	13·3	19·0	7·4	10·2	8·4	8·5	7·3
21 ...	5·4	7·2	7·5	6·0	9·7	11·7	10·5	7·5	9·8	9·1	10·2	9·2
22 ...	7·3	10·6	7·5	8·8	10·8	14·1	22·1	11·3	10·6	7·8	8·8	9·7
23 ...	7·2	8·4	6·6	11·0	9·1	13·6	22·1	8·4	10·0	11·7	7·9	11·2
24 ...	7·7	14·7	8·6	10·5	8·7	11·7	17·4	7·2	8·2	8·9	6·8	9·7
25 ...	11·1	10·7	13·7	11·1	8·0	11·4	16·4	14·0	7·6	8·1	7·5	7·2
26 ...	11·9	15·1	15·3	13·3	8·2	14·7	15·5	18·9	7·8	7·3	8·5	10·1
27 ...	7·1	17·3	18·8	13·1	7·4	12·2	12·0	21·6	9·9	6·2	9·8	11·0
28 ...	10·5	12·2	13·2	12·0	8·0	13·0	14·5	15·5	7·0	7·6	8·2	9·3
29 ...	10·7		8·8	11·0	9·4	15·0	13·6	14·3	5·7	6·4	6·7	5·8
30 ...	11·4		7·0	11·2	9·1	16·8	13·5	11·6	6·0	7·9	7·0	5·1
31 ...	8·0		11·2		9·3		12·1	13·1		5·7		6·6
Monthly Mean ...	9·1	9·9	9·7	10·2	7·9	11·2	13·7	10·6	9·8	7·6	6·9	8·4
Annual Variation .	−0·5	+0·3	+0·1	+0·6	−1·7	+1·6	+4·1	+1·0	+0·2	−2·0	−2·7	−1·2

Miles.

The mean velocity for June to August ... ... 11·8
The mean velocity for September to May ... ... 8·8
The mean velocity for the year .. .. 9·6

TABLE VI*b*.—*Showing the mean diurnal inequality of the velocity of the wind in miles per hour for each month of the year 1906, and for the whole year.*

1906. Bombay Civil Time. Hourly Intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
0 to 1...	−3·3	−2·9	−2·0	−0·4	−1·9	+0·3	−0·6	−1·4	−0·9	−2·5	−2·2	−3·3	−1·8
1 „ 2...	−2·9	−2·6	−1·9	−1·9	−2·2	+0·2	−0·1	−1·0	−0·8	−2·3	−1·9	−2·6	−1·7
2 „ 3...	−2·7	−2·9	−2·1	−2·8	−2·0	0·0	+0·3	−0·1	−0·8	−2·6	−0·8	−2·3	−1·6
3 „ 4...	−2·5	−2·9	−2·7	−3·6	−2·4	−0·3	+0·4	0·0	−1·0	−2·2	+0·1	−1·7	−1·6
4 „ 5...	−1·6	−2·6	−2·9	−4·5	−2·6	+0·1	+0·8	−0·3	−1·2	−1·8	−0·2	−0·9	−1·5
5 „ 6...	−1·2	−2·3	−3·7	−4·9	−3·1	−1·1	+0·9	−0·8	−1·1	−1·3	+0·2	−0·8	−1·6
6 „ 7...	−0·6	−2·6	−3·6	−5·6	−2·6	−1·6	+0·9	−0·9	−0·9	−1·6	−0·1	−0·8	−1·7
7 „ 8...	−0·5	−3·3	−3·1	−5·0	−1·9	−2·1	+0·8	−0·9	−1·0	−1·1	+0·5	−0·1	−1·5
8 „ 9...	+0·1	−1·9	−2·4	−3·4	−1·3	−1·4	+0·1	−0·6	−0·6	−0·9	+0·6	−0·6	−0·9
9 „ 10...	−0·8	−0·7	−2·9	−2·3	−0·4	−1·2	+0·3	+0·1	−1·2	−1·9	−0·5	−0·7	−1·0
10 „ 11...	−0·8	0·0	−1·1	−0·7	+1·1	−0·3	+0·6	+0·5	+0·1	−2·1	−2·8	−1·7	−0·6
11 „ 12...	−2·6	+0·4	+1·7	+1·0	+2·2	0·0	+0·3	+0·8	+0·5	−0·9	−3·6	−2·8	−0·2
12 „ 13...	−0·6	+1·6	+3·6	+3·2	+2·5	+0·3	+0·1	+1·5	+0·9	+1·3	−1·7	−2·0	+0·9
13 „ 14...	+1·5	+2·7	+4·7	+4·9	+3·6	+0·8	+0·2	+1·7	+1·5	+3·4	+0·8	−0·2	+2·1
14 „ 15...	+3·1	+4·1	+5·5	+5·5	+4·9	+1·4	+0·4	+2·2	+2·1	+4·5	+2·4	+1·6	+3·1
15 „ 16...	+3·4	+5·0	+6·0	+5·7	+4·5	+1·5	+1·1	+2·5	+2·8	+5·1	+4·0	+3·0	+3·7
16 „ 17...	+3·9	+5·2	+5·7	+5·3	+3·7	+0·7	0·0	+1·4	+2·4	+4·8	+3·7	+3·6	+3·4
17 „ 18...	+3·9	+4·6	+4·5	+4·0	+2·5	+0·4	−1·4	+0·9	+0·9	+4·0	+2·9	4·3	+2·6
18 „ 19...	+4·0	+4·1	+3·3	+2·5	+1·1	−0·1	−1·4	+0·2	+0·8	4·2·9	+3·6	+5·5	+2·2
19 „ 20...	+3·9	+2·5	+1·6	+0·6	+0·1	−0·2	−1·2	−0·6	+0·4	+0·9	+2·0	+4·8	+1·2
20 „ 21...	+2·5	+1·3	−0·6	−0·1	−1·4	−0·6	−1·5	−0·6	−0·2	−0·5	+0·3	+2·4	+0·1
21 „ 22...	−0·1	−0·7	−2·5	+0·2	−1·6	−0·2	−0·8	−1·8	−1·2	−1·8	−2·4	−0·3	−1·1
22 „ 23...	−2·6	−2·7	−2·9	+1·0	−1·5	+1·4	−0·6	−1·4	−0·9	−2·1	−2·3	−1·9	−1·4
23 „ 24...	−3·0	−3·0	−2·6	+0·7	−1·4	+1·2	−0·9	−1·5	−1·2	−2·3	−2·6	−2·7	−1·6
Range ...	7·3	8·5	9·7	11·3	8·0	3·6	2·6	4·3	4·0	7·7	7·6	8·8	5·5

TABLE VIc.—*Showing the Mean Velocities of the North or South and East or West Components of the Winds which blew on each day of the year 1906.*

In miles per hour.

1906.	Month.																											
Date.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.
1 ...	6·8 N	1·5 W	7·9 N	3·8 W	4·7 N	1·5 W	7·2 N	6·5 W	2·8 N	5·4 W	3·3 S	7·4 W	2·2 S	17·0 W	4·1 S	11·2 W	4·1 S	8·8 W	3·6 N	1·5 W	3·8 N	3·7 W	5·5 N	0·5 E
2 ...	6·0 N	1·9 W	12·3 N	7·4 W	1·3 N	0·0	7·0 N	6·4 W	1·0 N	6·3 W	3·6 S	6·8 W	2·6 S	17·7 W	6·6 S	13·3 W	2·3 S	8·9 W	5·4 N	3·2 W	1·5 N	3·2 W	6·7 N	2·2 W
3 ...	6·7 N	0·2 E	9·0 N	3·9 W	3·1 N	4·6 W	5·6 N	5·8 W	1·1 N	6·3 W	1·4 S	7·3 W	4·5 S	15·1 W	7·7 S	9·4 W	1·0 S	8·8 W	6·1 N	4·5 W	0·9 S	2·8 W	4·2 N	0·2 E
4 ...	5·2 N	0·7 W	9·2 N	4·3 W	10·2 N	6·6 W	2·5 N	6·7 W	3·3 N	6·8 W	0·1 N	7·6 W	4·6 S	11·2 W	6·1 S	8·1 W	0·0	12·5 W	4·3 N	2·0 W	2·6 S	1·0 W	3·5 N	2·2 E
5 ...	5·9 N	1·2 E	5·2 N	2·6 W	9·3 N	7·3 W	3·5 N	6·9 W	4·7 S	4·5 W	2·9 N	7·4 W	5·1 S	10·8 W	4·5 S	8·6 W	0·0	17·9 W	2·6 N	3·2 W	1·3 N	1·8 W	0·4 N	2·8 E
6 ...	6·2 N	1·5 W	4·5 N	2·9 W	9·1 N	6·9 W	6·2 N	5·9 W	3·9 S	4·8 W	3·4 N	6·5 W	5·1 S	7·9 W	4·4 S	7·4 W	0·0	15·0 W	4·2 N	2·2 W	5·3 N	1·9 W	0·1 N	5·1 E
7 ...	8·5 N	4·6 W	2·5 N	2·7 W	7·8 N	5·8 W	2·0 N	5·8 W	4·8 S	4·4 W	4·8 N	4·0 W	8·3 S	2·8 W	3·2 S	12·3 W	1·9 S	11·2 W	4·4 N	4·2 W	2·0 N	0·9 W	6·7 N	2·5 E
8 ...	7·5 N	2·2 W	5·2 N	4·5 W	7·0 N	7·7 W	4·4 N	7·2 W	4·0 S	4·0 W	4·1 S	2·5 W	4·7 S	5·2 W	5·4 S	9·8 W	5·2 S	6·1 W	3·6 N	4·5 W	0·7 N	0·4 E	5·8 N	3·9 E
9 ...	6·1 N	3·2 W	9·5 N	4·4 W	9·1 N	6·8 W	8·0 N	7·3 W	3·3 S	3·9 W	12·9 S	2·8 E	5·6 S	2·5 W	5·0 S	8·4 W	4·4 S	7·8 W	2·8 N	1·9 W	1·7 N	0·4 E	6·3 N	2·0 E
10 ...	7·6 N	3·3 W	7·3 N	5·3 W	8·8 N	7·6 W	11·4 N	9·4 W	0·6 S	5·3 W	10·8 S	2·4 E	14·2 S	2·9 E	4·2 S	6·9 W	5·3 S	13·1 W	3·9 N	2·7 W	2·7 N	0·7 E	5·9 N	3·2 E
11 ...	7·3 N	1·7 W	5·5 N	1·5 W	4·4 N	6·5 W	11·7 N	7·5 W	0·5 N	6·1 W	5·4 S	0·5 W	11·6 S	2·4 E	3·9 S	5·7 W	3·4 S	15·5 W	2·9 N	3·5 W	3·3 N	0·7 W	6·2 N	0·2 W
12 ...	11·3 N	3·0 W	5·4 N	3·8 W	5·0 N	4·4 W	10·8 N	7·2 W	3·8 S	4·8 W	9·5 S	2·1 W	2·5 S	6·9 W	3·7 S	4·0 W	1·8 S	11·8 W	3·7 N	1·7 W	3·0 N	1·0 E	8·8 N	1·9 W
13 ...	1·7 N	0·4 E	1·1 N	2·5 W	4·2 N	3·2 W	3·0 N	4·1 W	5·2 S	5·7 W	3·3 S	2·9 W	3·7 S	7·0 W	2·8 S	5·5 W	2·9 S	13·3 W	5·9 N	2·2 W	3·0 N	1·2 E	3·0 N	0·1 E
14 ...	6·7 N	0·8 E	0·9 S	2·1 W	5·4 N	6·1 W	5·1 N	7·6 W	4·4 S	6·5 W	1·5 S	2·4 W	0·8 S	11·4 W	3·2 S	5·0 W	4·4 S	6·7 W	6·2 N	2·3 W	3·2 N	0·0	4·1 N	0·5 E
15 ...	10·2 N	2·2 E	1·7 S	0·8 W	3·0 N	3·3 W	8·1 N	8·5 W	1·8 S	5·6 W	7·9 S	1·1 W	0·4 N	17·0 W	0·5 S	5·3 W	4·8 S	0·7 W	4·8 N	2·1 W	2·6 N	0·7 E	4·7 N	0·9 W
16 ...	8·5 N	1·9 E	6·0 S	1·0 E	1·0 N	5·0 W	5·4 N	8·4 W	2·3 S	6·0 W	3·3 S	4·2 W	1·7 S	14·8 W	6·1 N	5·6 W	4·8 S	0·3 W	5·2 N	4·1 W	4·5 N	0·4 W	2·6 N	0·1 W
17 ...	8·1 N	0·3 E	6·0 N	3·4 W	1·3 N	5·9 W	0·4 N	4·7 W	0·5 S	6·6 W	3·4 S	5·9 W	1·6 N	8·5 W	8·8 N	5·0 W	1·6 S	3·0 W	5·2 N	2·1 W	2·0 N	1·5 E	3·7 N	1·5 W
18 ...	1·7 N	0·4 E	6·2 N	0·4 W	1·3 N	3·6 W	1·1 S	3·2 W	0·2 S	6·1 W	4·4 S	4·8 W	8·1 S	2·3 W	4·9 N	2·6 W	1·4 N	4·7 W	5·0 N	1·6 W	0·9 N	2·4 E	3·2 N	1·9 E
19 ...	0·2 N	1·8 W	5·3 N	2·9 W	5·1 N	6·4 W	1·8 S	4·2 W	0·8 N	6·7 W	4·8 S	0·1 W	1·7 S	13·1 W	3·7 N	2·1 W	4·1 N	4·0 W	5·6 N	2·5 W	1·9 N	1·6 E	7·3 N	0·1 W
20 ...	2·1 N	5·2 W	7·8 N	2·9 W	3·8 N	6·5 W	1·3 S	5·0 W	3·4 N	7·4 W	12·3 S	3·1 E	3·7 S	18·3 W	4·4 N	4·4 W	6·1 N	6·8 W	4·4 N	0·5 W	4·8 N	0·0	5·6 N	2·3 W
21 ...	3·5 N	2·1 W	4·2 S	1·4 W	1·8 N	5·0 W	1·0 S	5·3 W	3·7 N	8·6 W	3·5 S	1·9 W	5·5 S	8·4 W	4·5 N	3·9 W	3·5 N	8·5 W	5·5 N	1·7 E	6·8 N	0·4 E	6·9 N	2·7 W
22 ...	1·9 N	1·7 E	7·1 S	3·3 W	1·5 N	5·0 W	2·7 N	7·0 W	4·5 N	9·5 W	9·6 S	10·3 W	1·8 S	21·8 W	7·3 N	8·0 W	6·4 N	7·7 W	5·2 N	0·6 W	6·4 N	0·4 E	8·1 N	1·5 W
23 ...	4·6 N	2·5 W	6·0 N	5·4 W	0·9 N	4·4 W	6·4 N	7·6 W	1·1 N	8·9 W	6·8 S	11·2 W	5·4 S	21·0 W	3·1 N	6·0 W	5·6 N	8·0 W	8·1 N	5·0 E	5·9 N	0·2 W	10·1 N	3·9 W
24 ...	4·6 N	2·4 W	11·9 N	4·1 W	3·8 N	7·0 W	5·0 N	9·0 W	0·0	8·7 W	5·0 S	10·5 W	6·9 S	15·7 W	0·1 N	5·6 W	2·8 N	7·6 W	6·6 N	0·1 W	1·5 N	0·7 E	8·5 N	3·2 W
25 ...	8·4 N	1·1 W	8·8 N	3·3 W	9·5 N	7·0 W	5·5 N	7·4 W	0·2 S	8·0 W	6·4 S	9·2 W	5·0 S	15·4 W	1·0 S	13·7 W	1·9 N	7·1 W	2·9 N	0·6 E	2·3 N	1·0 E	5·9 N	2·7 W
26 ...	10·5 N	4·2 W	13·1 N	4·4 W	12·3 N	7·0 W	8·9 N	7·9 W	1·1 S	7·9 W	9·1 S	11·1 W	5·1 S	14·5 W	4·5 S	17·9 W	0·6 N	6·8 W	0·5 S	1·0 E	4·1 N	2·3 E	7·7 N	0·7 W
27 ...	3·8 N	1·7 E	16·0 N	5·3 W	14·8 N	10·7 W	9·1 N	7·8 W	3·1 S	6·6 W	4·8 S	11·1 W	7·1 S	9·4 W	6·5 S	20·3 W	1·7 S	9·6 W	3·8 N	2·1 W	7·1 N	0·4 E	7·1 N	2·4 E
28 ...	8·8 N	0·0	10·8 N	1·1 W	10·4 N	7·4 W	8·7 N	7·4 W	3·3 S	7·1 W	4·8 S	12·1 W	8·7 S	11·3 W	6·1 S	14·3 W	3·0 S	3·3 W	4·9 N	2·1 W	5·6 N	0·7 W	6·9 N	0·4 E
29 ...	8·7 N	2·2 W			3·5 N	5·6 W	6·9 N	8·1 W	3·7 S	8·6 W	6·1 S	13·7 W	5·9 S	12·1 W	5·5 S	13·2 W	0·4 S	5·5 W	4·1 N	0·4 W	2·4 N	1·3 E	3·6 N	2·0 W
30 ...	4·8 N	3·7 E			1·8 S	3·9 W	5·0 N	6·3 W	4·2 S	7·9 W	6·0 S	15·6 W	5·2 S	12·5 W	1·3 S	11·2 W	2·2 N	2·1 W	5·1 N	1·8 W	3·2 N	1·1 E	0·8 N	1·9 W
31 ...	1·0 N	2·6 W			7·1 N	8·0 W			4·8 S	7·8 W			3·8 S	11·4 W	5·1 S	12·0 W			2·3 N	1·4 W			2·8 N	1·5 W
Monthly Mean ...	6·0 N	1·1 W	5·6 N	3·2 W	5·4 N	5·7 W	5·2 N	6·7 W	1·2 S	6·5 W	4·8 S	5·7 W	4·8 S	10·9 W	1·7 S	8·6 W	0·6 S	8·1 W	4·5 N	1·7 W	3·0 N	0·0	5·6 N	0·1 W
Annual Variation.	4·2 N	3·8 E	3·8 N	1·7 E	3·6 N	0·8 W	3·4 N	1·8 W	3·0 S	1·6 W	6·6 S	0·8 W	6·6 S	6·0 W	3·5 S	3·7 W	2·4 S	3·2 W	2·7 N	3·2 E	1·2 N	4·9 E	3·8 N	4·8 E

The Velocities of the Mean Components for the year are 1·8 N and 4·9 W.

TABLE VId.—*Showing the mean diurnal inequality of the velocity of the North or South and East or West Components of the Wind for each month of the year 1906 and for the whole year.*

In miles per hour.

1906. Bombay Civil time Hourly Intervals.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Year.	
	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.
0 to 1	1·5 S	1·5 E	1·9 S	2·2 E	0·4 N	1·8 E	2·4 N	1·8 E	0·0	2·0 E	1·8 S	1·8 E	0·4 N	0·2 E	0·5 S	1·4 E	0·4 S	0·3 W	1·5 S	1·6 E	1·0 S	2·4 E	1·4 S	1·1 E	0·6 S	1·5 E
1 to 2	1·3 S	1·9 E	1·7 S	2·1 E	0·1 N	1·5 E	1·2 N	3·0 E	0·2 S	2·2 E	1·3 S	1·6 E	0·2 S	0·2 W	0·2 S	1·2 E	0·4 S	0·1 E	1·6 S	2·9 E	1·1 S	3·1 E	1·5 S	2·5 E	0·7 S	1·8 E
2 to 3	1·9 S	3·1 E	1·2 S	2·4 E	0·1 S	2·6 E	0·8 N	4·3 E	0·4 S	2·2 E	1·0 S	1·6 E	0·4 N	0·3 W	0·8 S	0·4 E	0·4 S	0·2 E	1·7 S	3·2 E	1·0 S	4·5 E	1·6 S	3·1 E	0·7 S	2·3 E
3 to 4	1·4 S	3·4 E	1·2 S	3·5 E	0·2 S	3·6 E	0·4 S	5·2 E	0·3 S	2·8 E	0·1 S	0·9 E	0·9 S	0·6 E	0·7 S	0·1 W	0·6 S	0·6 E	1·3 S	3·7 E	0·4 S	5·2 E	1·6 S	4·3 E	0·8 S	2·8 E
4 to 5	1·0 S	4·8 E	1·6 S	4·5 E	0·7 S	3·9 E	1·4 S	6·4 E	0·4 S	2·9 E	1·0 N	1·4 E	1·2 S	0·3 E	0·3 S	0·4 E	0·7 S	1·4 E	1·8 S	4·9 E	0·8 S	5·2 E	1·4 S	5·3 E	0·9 S	3·4 E
5 to 6	1·7 S	5·8 E	1·8 S	6·4 E	1·1 S	5·1 E	1·7 S	6·7 E	0·2 S	3·0 E	1·2 N	1·6 E	0·8 S	0·4 E	0·1 S	0·9 E	0·8 S	1·9 E	1·5 S	5·3 E	0·4 S	5·8 E	1·2 S	5·1 E	0·8 S	4·0 E
6 to 7	1·7 S	6·7 E	2·8 S	6·7 E	1·1 S	6·0 E	2·3 S	7·5 E	1·1 S	3·4 E	1·9 N	1·6 E	1·0 S	0·1 E	0·4 S	1·0 E	0·8 S	2·9 E	1·6 S	6·0 E	0·8 S	5·7 E	1·2 S	5·5 E	1·1 S	4·4 E
7 to 8	2·3 S	7·7 E	2·3 S	5·6 E	1·4 S	7·0 E	2·2 S	7·6 E	1·5 S	3·6 E	1·7 N	1·9 E	0·8 S	0·0	0·3 N	1·8 E	1·2 S	3·7 E	1·3 S	6·4 E	0·9 S	6·0 E	2·1 S	6·8 E	1·2 S	4·8 E
8 to 9	2·3 S	8·5 E	2·3 S	6·3 E	1·5 S	7·0 E	1·1 S	4·9 E	1·0 S	2·9 E	0·7 N	2·1 E	0·3 S	0·6 E	0·7 S	2·1 E	0·6 S	3·1 E	1·4 S	7·1 E	1·1 S	6·4 E	1·9 S	7·6 E	1·1 S	4·9 E
9 to 10	2·0 S	7·4 E	2·0 S	5·7 E	2·1 S	5·5 E	1·2 S	2·2 E	0·9 S	1·1 E	0·6 N	1·3 E	0·2 N	0·2 E	0·2 S	1·3 E	0·4 S	3·1 E	1·8 S	6·1 E	1·4 S	5·5 E	2·8 S	6·9 E	1·2 S	3·9 E
10 to 11	1·7 S	5·4 E	1·5 S	3·4 E	1·7 S	0·4 E	2·2 S	1·3 W	1·0 S	0·9 W	0·2 S	0·1 W	0·3 S	0·4 W	0·3 N	0·2 E	0·1 N	1·1 E	1·9 S	3·6 E	2·5 S	3·5 E	2·9 S	5·4 E	1·3 S	1·7 E
11 to 12	2·6 S	0·9 E	1·1 S	0·5 W	0·8 S	3·6 W	2·3 S	3·3 W	0·6 S	2·4 W	0·6 N	1·3 W	0·4 N	0·7 W	0·4 S	0·7 W	0·6 N	0·2 W	0·6 S	0·8 W	2·3 S	0·3 E	2·7 S	1·5 E	1·0 S	0·9 W
12 to 13	2·0 S	3·1 W	0·4 S	4·6 W	0·1 N	5·4 W	1·7 S	5·7 W	0·2 N	2·9 W	0·3 N	2·2 W	0·2 N	0·4 W	0·1 S	2·2 W	1·4 N	1·2 W	0·3 S	4·7 W	1·9 S	1·4 W	1·8 S	0·9 W	0·5 S	2·9 W
13 to 14	1·2 S	7·1 W	0·0	5·9 W	0·8 N	6·6 W	1·0 S	7·2 W	0·1 N	4·1 W	0·4 N	2·9 W	1·1 N	1·3 W	0·2 S	2·5 W	0·8 N	2·2 W	0·7 N	7·3 W	1·0 S	5·7 W	0·9 S	4·8 W	0·0	4·8 W
14 to 15	0·4 N	8·6 W	1·4 N	7·1 W	0·8 N	7·4 W	0·1 N	7·4 W	1·0 N	5·6 W	0·5 N	4·1 W	0·8 N	1·5 W	0·5 S	2·7 W	0·7 N	2·7 W	1·7 N	8·2 W	0·6 S	7·7 W	0·1 N	7·5 W	0·5 N	5·9 W
15 to 16	1·5 N	8·2 W	2·4 N	7·8 W	2·0 N	7·4 W	0·8 N	7·5 W	1·0 N	5·2 W	0·7 N	3·4 W	0·4 N	2·1 W	0·8 N	3·0 W	0·8 N	3·5 W	2·7 N	8·5 W	0·7 N	9·9 W	1·3 N	8·4 W	1·3 N	6·2 W
16 to 17	2·7 N	8·0 W	3·4 N	7·2 W	2·4 N	6·8 W	1·4 N	6·5 W	1·5 N	4·2 W	1·5 N	3·0 W	1·1 N	1·2 W	0·5 N	2·0 W	1·1 N	3·2 W	3·7 N	7·1 W	1·2 N	9·2 W	2·2 N	8·1 W	1·9 N	5·5 W
17 to 18	4·1 N	6·3 W	3·9 N	5·9 W	1·8 N	5·9 W	1·2 N	5·1 W	1·4 N	3·1 W	1·3 N	3·4 W	0·5 N	0·2 E	1·4 N	1·4 W	0·7 N	1·8 W	3·8 N	5·9 W	2·5 N	7·6 W	4·0 N	7·3 W	2·2 N	4·5 W
18 to 19	4·8 N	5·2 W	3·9 N	5·3 W	2·3 N	3·9 W	0·5 N	4·0 W	1·1 N	2·0 W	0·6 N	1·9 W	0·4 N	0·4 E	0·9 N	0·7 W	0·6 N	1·8 W	3·5 N	4·3 W	4·3 N	6·6 W	6·0 N	6·8 W	2·4 N	3·5 W
19 to 20	4·9 N	4·9 W	3·6 N	3·3 W	1·6 N	2·6 W	0·8 N	1·2 W	1·0 N	0·9 W	0·2 S	0·8 W	0·2 S	1·3 E	0·4 N	0·1 E	0·2 N	1·2 W	2·0 N	2·5 W	4·2 N	4·6 W	6·0 N	5·8 W	2·0 N	2·2 W
20 to 21	4·1 N	3·5 W	2·6 N	2·6 W	0·8 N	0·2 W	0·8 N	0·6 W	0·5 N	0·6 E	0·7 S	0·3 E	0·3 S	1·4 E	0·2 N	0·3 E	0·1 N	0·7 W	0·9 N	1·9 W	2·6 N	2·0 W	4·3 N	3·1 W	1·3 N	1·0 W
21 to 22	2·0 N	1·4 W	1·3 N	0·8 W	0·6 S	1·4 E	1·1 N	0·9 W	0·3 N	0·9 E	1·4 S	1·4 E	0·1 N	0·7 E	0·6 N	1·2 E	0·1 N	0·1 E	0·3 S	0·8 W	1·1 N	0·5 W	2·0 N	1·1 W	0·5 N	0·0
22 to 23	0·1 S	0·3 W	0·1 S	1·1 E	0·5 S	2·2 E	2·6 N	0·5 W	0·5 S	1·4 E	2·8 S	2·6 E	0·0	0·9 E	0·1 N	1·7 E	0·4 S	0·1 W	0·9 S	0·0	1·0 N	0·6 E	0·5 N	0·3 W	0·1 S	0·8 E
23 to 24	0·6 S	0·2 E	0·8 S	1·5 E	0·4 S	1·7 E	3·4 N	0·8 E	0·5 S	1·3 E	2·4 S	2·2 E	0·3 S	1·0 E	0·3 S	1·3 E	0·6 S	0·2 E	0·6 S	1·0 E	0·4 S	1·1 E	0·4 S	0·2 E	0·3 S	1·0 E

Aggregate and Mean Velocities and Relative Frequency of Different Winds, 1906.

TABLE VIe.—*Showing for the year 1906 the sums of the Velocities and the Mean Velocities, in miles per hour, of the Winds which blew in each Month, from each of the sixteen Principal Directions and also the number of hourly Observations which those sums comprise; the latter numbers indicating the Relative Frequency of the same Wind (as to direction) in the several Months, and of different Winds during the same Month.*

1906.	N.			N.N.E.			N.E.			E.N.E.			E.			E.S.E.			S.E.			S.S.E.		
Month.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.
	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.
January ...	787	106	7·4	172	23	7·5	687	91	7·5	737	84	8·8	314	40	7·8	84	12	7·0	26	6	4·3	6	1	6·0
February ...	630	73	8·6	361	60	6·0	269	36	7·5	245	31	7·9	104	20	5·2	55	8	6·9	91	11	8·3	66	6	11·0
March ...	347	46	7·5	126	25	5·0	120	21	5·7	78	13	6·0	153	23	6·7	45	8	5·6	35	7	5·0	8	1	8·0
April ...	371	55	6·7	215	38	5·7	26	7	3·7	30	4	7·5	31	7	4·4	9	2	4·5	5	1	5·0	31	8	3·9
May ...	12	2	6·0	23	6	3·8	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	62	10	6·2
June ...	39	6	6·5	42	10	4·2	43	3	14·3	54	6	9·0	75	5	15·0	103	11	9·4	371	35	10·6	819	59	13·9
July ...	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	26	2	13·0	585	40	14·6
August ...	56	7	8·0	73	18	4·1	102	20	5·1	16	3	5·3	21	5	4·2	0	0	0·0	0	0	0·0	6	1	6·0
September ...	47	6	7·8	8	2	4·0	49	9	5·4	12	3	4·0	17	3	5·7	0	0	0·0	94	13	7·2	161	21	7·7
October ...	214	39	5·5	202	40	5·0	565	87	6·5	659	86	7·7	149	30	5·0	124	18	6·9	31	4	7·7	2	2	1·0
November ...	315	61	5·2	119	29	4·1	511	75	6·8	758	111	6·8	568	93	6·1	129	20	6·4	77	18	4·3	31	6	5·2
December ...	783	130	6·0	170	28	6·1	801	111	7·2	887	106	8·4	405	63	6·4	20	4	5·0	0	0	0·0	6	1	6·0
Year ...	3,601	531	6·8	1,511	279	5·4	3,173	460	6·9	3,476	447	7·8	1,837	289	6·4	569	83	6·9	756	97	7·8	1,783	156	11·4

1906.	S.			S.S.W.			S.W.			W.S.W.			W.			W.N.W.			N.W.			N.N.W.			No. of observations.	
Month.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Calm.	Variable.
	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.		
January ...	0	0	0·0	0	0	0·0	26	7	3·7	94	18	5·2	97	12	8·1	524	52	10·1	1,593	151	10·5	1,633	141	11·6	0	0
February ...	238	17	14·0	112	14	8·0	108	16	6·7	27	6	4·5	86	17	5·1	794	92	8·6	2,005	154	13·0	1,476	110	13·4	1	0
March ...	9	2	4·5	8	2	4·0	24	4	6·0	159	25	6·4	387	39	9·9	1,992	226	8·8	2,654	205	12·9	1,054	93	11·3	4	0
April ...	61	11	5·5	17	3	5·7	47	12	3·9	246	36	6·8	824	94	8·8	2,017	157	12·8	2,428	197	12·3	965	87	11·1	1	0
May ...	209	25	8·4	261	42	6·2	672	99	6·8	1,674	223	7·5	1,412	173	8·2	1,278	127	10·1	248	32	7·7	23	4	5·7	1	0
June ...	747	48	15·6	178	22	8·1	1,244	118	10·5	2,670	232	11·5	1,011	96	10·5	453	45	10·1	147	14	10·5	43	10	4·3	0	0
July ...	333	27	12·3	168	24	7·0	1,270	128	9·9	4,591	332	13·8	2,936	168	17·5	165	14	11·8	73	8	9·1	10	1	10·0	0	0
August ...	42	8	5·2	70	11	6·4	1,107	135	8·2	3,792	296	12·8	1,143	87	13·1	609	63	9·7	617	61	10·1	230	27	8·5	2	0
September ...	55	9	6·1	42	7	6·0	489	69	7·1	1,721	171	10·1	2,797	231	12·1	1,020	118	8·6	434	47	9·2	90	10	9·0	1	0
October ...	3	1	3·0	0	0	0·0	8	1	8·0	10	5	2·0	25	5	5·0	1,120	118	9·5	1,857	229	8·1	653	74	8·8	5	0
November ...	16	4	4·0	2	1	2·0	4	1	4·0	79	12	6·6	395	54	7·3	726	89	8·2	715	79	9·1	525	58	9·1	9	0
December ...	0	0	0·0	3	1	3·0	0	0	0·0	6	1	6·0	78	10	7·8	447	47	9·5	1,242	128	9·7	1,430	113	12·7	1	0
Year ...	1,713	152	11·3	861	127	6·8	4,999	590	8·5	15,069	1,357	11·1	11,191	986	11·3	11,145	1,148	9·7	14,013	1,305	10·7	8,132	728	11·2	25	0

Velocity of Wind, 1906

DINES' ANEMOGRAPH.

TABLE VI*f*.—*Mean Velocity of Wind in miles per hour, for each day of Bombay Civil Time; also the mean monthly Velocity and its variation from the mean of the year.*

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles	Miles.	Miles.	Miles.	Miles.
1 ...	6·2	7·8	5·7	7·3	6·2	5·7	11·5	7·8	6·8	5·4	4·5	5·7
2 ...	5·4	10·2	3·5	7·5	**7·8**	5·8	12·1	10·3	6·4	5·9	**3·4**	6·0
3 ...	6·5	7·8	4·6	6·2	4·6	**5·5**	10·6	8·5	6·2	5·6	3·5	4·8
4 ...	5·2	7·8	8·9	6·6	6·0	5·6	8·3	7·0	8·5	5·2	4·0	5·7
5 ...	7·2	5·3	8·8	6·4	5·7	6·7	8·4	6·5	**12·1**	4·5	4·6	7·4
6 ...	5·9	5·7	8·2	7·2	5·2	7·2	6·6	6·2	10·1	6·0	5·3	**8·3**
7 ...	7·0	4·1	7·7	4·9	5·3	7·9	6·9	8·8	7·9	5·5	3·5	7·0
8 ...	6·8	5·7	7·8	6·0	4·2	6·4	**5·0**	7·7	5·9	4·6	5·0	6·8
9 ...	5·7	7·7	8·7	8·2	4·3	**13·5**	6·0	7·0	6·2	5·3	5·3	6·2
10 ...	6·4	6·9	8·8	**10·6**	4·8	9·2	11·5	5·9	10·0	5·9	4·8	6·1
11 ...	6·0	6·8	5·8	10·2	5·0	7·0	9·2	5·4	10·9	**4·2**	4·9	6·2
12 ...	8·5	5·7	6·1	9·9	5·2	8·7	5·3	**4·3**	8·1	4·9	4·9	7·0
13 ...	3·6	**3·1**	6·6	5·1	5·9	5·7	5·5	4·7	9·2	5·5	5·5	4·6
14 ...	6·9	4·7	6·8	7·0	5·7	7·0	7·8	4·3	5·7	5·8	5·3	6·0
15 ...	**9·6**	4·0	**2·9**	9·4	**4·1**	7·8	11·3	4·4	5·0	5·7	5·4	4·9
16 ...	7·9	7·6	3·7	7·5	4·4	7·6	10·4	7·0	5·7	5·0	5·0	5·0
17 ...	7·1	5·3	4·9	5·0	4·6	7·2	6·9	7·9	**3·9**	4·5	4·5	5·2
18 ...	4·2	6·2	5·5	5·7	4·6	7·6	8·0	5·4	5·0	5·2	4·7	4·1
19 ...	**3·5**	6·4	6·6	4·7	5·1	5·7	9·0	4·5	5·2	5·2	4·6	7·1
20 ...	5·3	6·8	5·6	**4·3**	6·2	9·5	12·5	5·3	7·1	5·8	6·2	5·3
21 ...	3·7	5·2	5·2	4·4	6·8	9·2	7·1	5·1	7·0	6·4	**7·0**	6·2
22 ...	5·1	8·3	5·9	6·3	7·5	9·9	**14·6**	8·0	7·2	5·2	6·3	6·7
23 ...	5·0	6·1	4·7	8·1	6·3	9·3	14·5	5·9	6·8	**7·7**	6·0	7·9
24 ...	5·4	10·0	6·1	7·9	6·1	8·0	11·8	5·2	5·4	6·1	5·2	6·8
25 ...	7·4	7·4	9·7	8·0	5·7	8·0	10·8	9·4	5·3	5·5	5·3	5·1
26 ...	8·2	10·5	10·8	9·6	5·5	10·2	10·4	12·6	5·3	5·7	6·1	7·2
27 ...	5·0	**12·0**	**13·2**	9·3	5·2	8·2	8·1	**14·5**	6·6	4·3	6·9	7·7
28 ...	7·2	8·5	9·5	8·5	5·6	9·2	10·0	10·3	5·0	5·7	5·9	6·4
29 ...	7·1		6·4	7·9	6·2	10·3	8·5	9·4	4·0	4·7	4·8	4·3
30 ...	7·5		5·2	8·1	6·3	11·4	8·3	7·9	4·2	5·7	5·0	**3·7**
31 ...	5·7		7·9		6·5		7·8	8·7		4·6		4·5
Monthly Mean ...	6·2	6·9	6·9	7·3	5·6	8·0	**9·2**	7·3	6·8	5·4	**5·1**	6·0
Annual variation.	−0·5	+0·2	+0·2	+0·6	−1·1	+1·3	+2·5	+0·6	+0·1	−1·3	−1·6	−0·7

TABLE VI*g*.—*Showing the mean diurnal inequality of the Velocity of the Wind in miles per hour for each month of the year 1906, and for the whole year.*

1906. Bombay Civil Time Hourly intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
0 to 1...	−2·2	−2·0	−1·4	−0·3	−1·0	+0·5	−0·5	−0·8	−0·5	−1·7	−1·3	**−2·0**	−1·1
1 „ 2...	−2·1	−1·9	−1·4	−1·6	−1·5	+0·5	−0·1	−0·7	−0·6	−1·4	−1·0	−1·6	−1·1
2 „ 3...	−2·1	−2·0	−1·4	−2·0	−1·6	+0·2	+0·3	−0·1	−0·5	−1·4	−0·3	−1·4	−1·3
3 „ 4...	−1·8	−2·2	−2·2	−2·4	−1·6	0·0	+0·3	0·0	−0·7	−1·4	0·0	−1·0	−1·1
4 „ 5...	−1·2	−1·9	−2·0	−3·0	−1·9	+0·2	+0·5	−0·3	−0·7	−1·1	0·0	−0·7	−1·0
5 „ 6...	−0·8	−1·7	**−2·6**	−3·3	**−2·1**	−0·9	+0·3	−0·7	−0·7	−1·0	0·0	−0·7	**−1·2**
6 „ 7...	−0·5	−1·8	−2·6	**−3·7**	−1·9	−1·1	**+0·7**	−0·6	−0·3	−0·9	−0·2	−0·5	−1·1
7 „ 8...	−0·3	−2·1	−2·0	−3·4	−1·2	**−1·5**	+0·5	−0·7	−0·5	−0·7	+0·3	−0·3	−1·0
8 „ 9...	−0·1	−1·3	−1·4	−2·4	−0·8	−1·0	+0·3	−0·5	−0·5	−0·5	+0·3	+0·1	−0·6
9 „ 10...	−0·5	−0·4	−1·8	−1·7	−0·2	−0·8	+0·2	+0·1	−0·7	−1·2	−0·5	−0·5	−0·7
10 „ 11...	−0·7	0·0	−1·1	−0·7	+0·4	−0·6	+0·3	0·0	−0·2	**−1·9**	−2·0	−1·5	−0·7
11 „ 12...	−1·5	+0·4	+1·2	+0·4	+1·3	−0·4	+0·3	+0·4	+0·1	−0·9	**−2·4**	−1·8	−0·2
12 „ 13...	−0·2	+1·3	+2·5	+1·7	+1·7	+0·1	0·0	+0·8	+0·5	+0·8	−1·2	−1·4	+0·5
13 „ 14...	+1·1	+2·0	+3·2	+3·3	+2·4	+0·7	+0·1	+1·3	+0·8	+2·2	+0·3	−0·3	+1·4
14 „ 15...	+2·0	+2·8	+3·9	**+3·9**	+2·9	+0·7	+0·3	+1·4	+1·0	+2·9	+1·6	+1·0	+2·0
15 „ 16...	+2·4	+3·4	**+4·2**	+3·8	**+3·0**	+0·6	+0·5	**+1·4**	+1·4	+3·3	**+2·5**	+1·9	**+2·4**
16 „ 17...	+2·8	**+3·6**	+3·9	+3·6	+2·5	+0·5	+0·2	+1·0	**+1·6**	**+3·4**	+2·4	+2·4	+2·3
17 „ 18...	+2·8	+3·3	+3·3	+3·0	+1·9	+0·2	−0·7	+0·7	+0·9	+2·9	+2·3	+3·1	+2·0
18 „ 19...	**+2·9**	+2·9	+2·4	+1·8	+0·7	0·0	**−0·9**	+0·2	+0·6	+2·1	+2·2	**+3·6**	+1·5
19 „ 20...	+2·7	+2·0	+1·2	+0·7	−0·1	+0·1	−0·7	−0·4	+0·1	+0·9	+1·6	+3·4	+1·0
20 „ 21...	+1·7	+1·0	−0·5	0·0	−0·8	−0·3	−0·7	−0·4	−0·1	−0·2	+0·2	+1·5	+0·1
21 „ 22...	0·0	−0·7	−1·8	+0·4	−1·1	+0·7	−0·5	−0·9	−0·6	−1·0	−1·5	−0·1	−0·6
22 „ 23...	−1·8	−2·0	−2·2	+0·6	−0·8	+1·1	−0·6	**−0·9**	−0·5	−1·4	−1·6	−1·3	−0·9
23 „ 24...	**−2·3**	**−2·2**	−1·9	+0·5	−0·9	**+1·3**	−0·6	−0·8	**−0·7**	−1·6	−1·5	−1·8	−1·0
Range ...	5·2	5·8	6·8	7·6	5·1	2·8	1·6	2·3	2·3	5·3	4·9	5·6	3·6

	Miles.
The mean velocity for June to August	8·2
The mean velocity for September to May	6·2
The mean velocity for the year	6·7

Temperature of the Ground, 1906.

TABLE VIIa.—*Showing for each month the mean Temperature of the Ground in the thermometer shed and its Annual Variation at the respective depths of 1, 9, 20, 60 and 132 inches below the surface.*

Month.	1 inch.		9 inches.		20 inches.		60 inches.		132 inches.	
	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.
	°	°	°	°	°	°	°	°	°	°
January ...	75·6	−6·0	77·4	−5·7	81·8	−4·3	84·9	−1·6	85·0	−0·2
February ...	75·5	−6·1	77·3	−5·8	81·2	−4·9	84·0	−2·5	84·2	−1·0
March ...	79·2	−2·4	80·0	−3·1	82·7	−3·4	83·9	−2·6	83·9	−1·3
April ...	83·2	+1·6	83·5	+0·4	85·6	−0·5	85·2	−1·3	84·2	−1·0
May ...	87·4	+5·8	87·7	+4·6	89·3	+3·2	87·2	+0·7	84·8	−0·4
June ...	85·1	+3·5	87·3	+4·2	90·1	+4·0	88·9	+2·4	85·6	+0·4
July ...	82·9	+1·3	85·5	+2·4	88·8	+2·7	88·8	+2·3	86·1	+0·9
August ...	82·7	+1·1	85·2	+2·1	88·1	+2·0	88·1	+1·6	86·1	+0·9
September ...	82·3	+0·7	84·2	+1·1	87·2	+1·1	87·2	+0·7	85·9	+0·7
October ...	83·4	+1·8	84·4	+1·3	86·9	+0·8	86·8	+0·3	85·7	+0·5
November ...	82·9	+1·3	83·8	+0·7	86·5	+0·4	86·7	+0·2	85·7	+0·5
December ...	79·3	−2·3	81·1	−2·0	84·8	−1·3	86·1	−0·4	85·3	+0·1
Year ...	81·6		83·1		86·1		86·5		85·2	

TABLE VIIb.—*Showing for each of the five observation hours and for the mean of the day, the Temperature of the Ground exposed to the direct rays of the Sun at the depths of 1 inch and 8 inches below the surface.*

Depth from Surface.	1 inch.						8 inches.					
Month.	Observation Hours.					Mean of five observation hours.	Observation Hours.					Mean of five observation hours.
	6	10	14	16	22		6	10	14	16	22	
	°	°	°	°	°	°	°	°	°	°	°	°
January ...	70·2	84·5	102·0	95·6	77·1	85·9	77·1	76·6	77·5	78·3	78·9	77·7
February ...	71·5	87·6	104·4	99·5	78·2	88·3	79·3	78·5	79·3	80·2	81·0	79·6
March ...	77·3	97·1	111·4	107·5	84·3	95·5	85·3	84·7	85·7	87·1	87·8	86·1
April ...	82·4	101·3	116·3	111·0	89·5	100·1	92·2	91·1	92·6	94·2	95·1	93·0
May ...	89·7	109·4	121·3	115·3	96·1	106·4	98·4	97·6	99·0	100·6	101·4	99·4
June ...	83·5	92·8	99·2	96·6	85·9	91·6	90·2	89·5	90·5	91·5	91·5	90·6
July ...	80·1	84·8	89·9	88·1	82·0	85·0	83·7	83·4	84·2	84·9	84·9	84·2
August ...	79·4	86·2	91·8	90·4	82·0	85·9	83·9	83·5	84·5	85·4	85·7	84·6
September ...	79·7	89·1	97·1	94·3	83·7	88·8	84·2	83·5	85·0	86·1	86·4	85·0
October ...	80·9	96·3	109·8	104·5	87·3	95·8	86·7	86·1	87·2	88·3	88·7	87·4
November ...	79·7	99·1	113·6	104·9	86·5	96·8	85·8	85·1	85·9	86·8	87·4	86·2
December ...	73·5	89·4	107·5	98·7	81·1	90·0	81·0	80·3	81·2	81·8	82·6	81·4
Year ...	79·0	93·1	105·4	100·5	84·5	92·5	85·6	85·0	86·0	87·1	87·6	86·3

Maxima and Minima of different Meteorological Elements, 1906

TABLE VIII.—*Showing the individual observations in each month of the year, indicating the greatest and the least values of the following elements, viz., Height of Barometer (corrected for Temperature); Temperature of Air; Pressure of Vapour; Additional capacity of Air and ground temperatures, 1 inch and 8 inches below the surface (exposed to solar rays).*

1906.	Height of Barometer.			Temperature of Air.			Pressure of Vapour.			Additional Capacity.			Ground Thermometer 1 inch deep.			Ground Thermometer 8 inches deep.		
Month.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.
	In.	In.	In.	°	°	°	In.	In.	In.	In.	In.	In.	°	°	°	°	°	°
January ...	30·090	29·852	0·238	85·6	62·5	23·1	0·833	0·235	0·598	0·837	0·069	0·768	107·4	63·8	43·6	84·8	73·8	11·0
February ...	·072	·765	·307	89·5	63·6	25·9	·887	·230	·657	1·042	·057	·985	109·6	65·8	43·8	84·6	76·9	7·7
March ...	·062	·775	·287	86·7	68·6	18·1	·844	·360	·484	0·769	·064	·705	115·3	72·6	42·7	91·0	80·2	10·8
April ...	29·948	·704	·244	88·8	73·4	15·4	·931	·574	·357	·589	·063	·526	118·8	78·3	40·5	97·9	87·8	10·1
May ...	·889	·668	·221	91·2	77·5	13·7	·988	·823	·165	·548	·102	·446	124·9	84·8	40·1	103·6	93·7	9·9
June ...	·840	·359	·481	91·2	76·0	15·2	1·070	·794	·276	·585	·034	·551	125·4	77·7	47·7	103·5	81·9	21·6
July ...	·811	·460	·351	86·2	75·5	10·7	1·025	·807	·218	·300	·029	·271	98·2	77·3	20·9	88·8	79·8	9·0
August ...	·872	·456	·416	85·7	75·4	10·0	0·980	·815	·165	·311	·025	·286	100·9	72·8	28·1	89·3	79·8	9·5
September ...	·931	·642	·289	85·0	75·9	9·1	·963	·771	·192	·356	·029	·327	106·6	75·1	31·5	88·9	81·8	7·1
October ...	·977	·716	·261	92·6	73·1	19·5	1·008	·468	·540	·980	·061	·919	112·8	74·8	38·0	91·0	83·8	7·2
November ...	30·078	·804	·274	89·9	72·4	17·5	0·944	·445	·499	·811	·070	·741	116·5	74·5	42·0	90·5	81·8	8·7
December ...	·048	·776	·272	88·5	69·8	18·7	·846	·323	·523	·892	·082	·810	111·8	70·8	41·0	83·8	78·9	4·9
Year ...	30·090	29·359	0·731	92·6	62·5	30·1	1·070	0·230	0·840	1·042	0·025	1·017	125·4	63·8	61·6	103·6	73·8	29·8

Extent of the Cloudy Sky, 1906.

TABLE IX.—*Means of estimations made at 6, 10, 14, 16 and 22 hours daily, the whole sky being reckoned as 10·0.*

1906.	Month.											
Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	...	1·4	...	0·4	1·2	3·2	9·8	9·6	8·8	2·2	3·6	...
2	0·6	4·2	...	...	3·4	1·8	10·0	9·6	8·0	2·4	5·8	...
3	0·2	...	...	...	4·2	1·8	9·8	9·4	9·0	1·8	4·6	...
4	0·2	...	...	0·4	5·8	3·2	9·4	8·8	9·2	1·0	3·2	...
5	0·4	2·0	...	0·4	2·0	4·6	10·0	6·2	8·4	0·2	3·6	...
6	...	...	...	...	3·6	4·4	8·4	9·4	9·6	0·8	1·0	1·4
7	0·4	1·4	...	2·0	5·4	8·2	7·4	5·8	9·0	2·8	1·4	0·6
8	0·2	1·4	...	2·6	5·2	6·2	9·2	9·8	7·8	2·8	...	...
9	...	0·6	...	2·2	5·8	8·0	9·6	7·2	7·0	4·6	...	1·6
10	...	...	6·4	0·6	1·6	10·0	9·4	6·4	7·0	0·8	...	5·6
11	0·4	...	2·8	...	1·8	9·8	9·2	7·4	9·0	1·0	...	1·0
12	1·8	3·4	5·6	...	3·2	10·0	8·6	6·4	6·2	4·2	...	3·0
13	2·0	1·4	0·2	...	2·8	6·0	10·0	7·6	6·8	...	0·6	2·4
14	1·0	1·8	...	...	0·8	10·0	10·0	8·2	6·8	1·6	...	...
15	...	3·0	8·6	0·6	3·6	8·2	9·4	4·4	6·0	0·8	...	...
16	...	4·0	4·4	2·0	0·6	7·8	10·0	6·8	2·2	3·2	...	...
17	...	4·6	...	0·6	1·0	9·8	10·0	8·4	2·0	2·6	...	...
18	2·0	4·4	0·4	...	2·0	10·0	9·6	8·6	5·8	3·2	0·4	...
19	4·4	0·2	0·6	0·6	1·0	10·0	10·0	9·6	4·2	1·0	3·0	...
20	2·0	1·0	3·0	...	1·6	10·0	10·0	8·2	4·6	...	4·2	...
21	3·2	2·8	1·4	...	1·6	10·0	9·0	9·2	9·4	...	4·0	...
22	...	0·6	...	...	4·0	5·4	10·0	10·0	6·0	...	0·8	0·2
23	1·4	3·4	...	...	3·0	9·4	10·0	10·0	4·6	1 0	0·6	0·2
24	0·2	...	1·2	...	2 8	8·2	10·0	10·0	3·0	2·8	1·4	0·4
25	2·2	...	1·2	...	1·8	10·0	8·4	10·0	4·6	0·6	2·2	...
26	3·6	...	0·4	0·6	2·8	10·0	8·8	10·0	6·4	0·8	...	...
27	2·2	...	2·8	0·4	3·6	10·0	8·6	8·8	6·2	4·0	...	0·4
28	4·4	...	0·6	0·4	5·6	10·0	9·4	8·6	6·6	5·2	...	...
29	2·4		...	0·4	4·2	9·6	9·4	7·0	4·0	4·8	...	1·4
30	3·8		3·4	...	2·6	9·6	10·0	10·0	4·4	2·8	...	...
31	2·2		...		4·2		8·6	9·6		5·4		3·2
Monthly Mean.	1·3	1·5	1·4	0·5	3·0	7·8	9·4	8·4	6·4	2·1	1·4	0·7
Annual Variation ...	−2·4	−2·2	−2·3	−3·2	−0·7	+4·1	+5·7	+4·7	+2·7	−1·6	−2·3	−3·0

For the days which have no entry 0·0 is to be understood.

Mean of the months, from January to April, November and December ... ... 1·1

Mean of the months from May to October ... ... 6·2

Mean for the year ... ... 3·7

Meteorological Data, 1906.

Table X.—Five-day Means of the different Meteorological Elements.

Number of Five-day Period.	Barometric Pressure.	Temperature of the air.	Pressure of Vapour.	Additional Capicity of the air.	Rainfall.*	North or South Component of Wind.	East or West Component of Wind.	Number of Five-day Period.	Baromefric Pressure.	Temperature of the air.	Pressure of Vapour.	Additional Capacity of the Air.	Rainfall.*	North or South Component of Wind.	East or West Component of Wind.
	In.	°	In.	In.	In.	Miles.	Miles.		In.	°	In.	In.	In.	Miles.	Miles.
1 ...	29·952	70·6	0·500	0·257	...	6·1 N	0·5 W	38 ...	29·616	81·4	0·943	0·132	1·84	5·8 S	5·8 W
2 ...	·944	71·9	·541	·248	...	7·2 N	3·0 W	39 ...	·700	81·2	·921	·144	1·78	6·6 S	4·0 W
3 ...	·964	72·8	·528	·287	...	7·4 N	0·3 W	40 ...	·607	79·6	·904	·105	4·52	1·9 S	11·1 W
4 ...	·934	76·2	·635	·277	...	4·1 N	0·9 W	41 ...	·525	78·8	·900	·085	7·78	4·7 S	17·0 W
5 ...	·942	72·6	·629	·174	...	4·6 N	1·3 W	42 ...	·628	80·8	·913	·138	1·30	6·4 S	12·5 W
6 ...	·968	71·5	·463	·318	...	7·3 N	0·2 W	43 ...	·719	81·7	·899	·184	0·14	5·5 S	11·6 W
7 ...	·986	72·5	·582	·219	...	7·9 N	4·4 W	44 ...	·793	81·3	·885	·184	1·07	4·7 S	9·2 W
8 ...	·930	72·0	·580	·210	...	5·4 N	3·4 W	45 ...	·776	81·2	·883	·183	0·97	3·9 S	6·1 W
9 ...	·896	71·8	·545	·238	...	3·7 N	3·0 W	46 ...	·780	81·8	·885	·201	0·27	3·2 N	4·7 W
10 ...	·854	72·8	·615	·195	0·14	2·0 N	1·3 W	47 ...	·690	79·9	·905	·117	5·26	4·6 N	4·9 W
11 ...	·878	74·4	·612	·242	0·01	2·9 N	3·4 W	48 ...	·564	78·7	·888	·093	13·07	3·6 S	14·4 W
12 ...	·928	73·2	·429	·401	...	10·7 N	3·1 W	49 ...	·709	80·4	·895	·143	0·75	3·7 S	10·8 W
13 ...	·947	76·6	·664	·256	...	6·6 N	5·1 W	50 ...	·729	80·1	·875	·151	0·82	0·6 S	13·1 W
14 ...	·966	75·9	·667	·230	...	7·4 N	6·9 W	51 ...	·745	80·2	·865	·166	0·64	4·0 S	10·9 W
15 ...	·900	74·3	·640	·211	...	3·7 N	4·4 W	52 ...	·706	80·5	·840	·203	0·02	3·7 S	4·8 W
16 ...	·861	75·6	·679	·210	...	2·7 N	5·5 W	53 ...	·819	79·9	·846	·177	1·78	4·3 N	6·3 W
17 ...	·885	77·4	·741	·204	...	5·6 N	6·1 W	54 ...	·793	80·9	·845	·212	...	1·8 N	7·8 W
18 ...	·843	78·4	·740	·235	...	6·8 N	7·1 W	55 ...	·869	80·6	·840	·204	0·12	1·6 N	3·1 W
19 ...	·815	79·0	·765	·231	...	5·2 N	6·5 W	56 ...	·882	80·2	·849	·185	...	4·3 N	3·2 W
20 ...	·810	79·3	·794	·210	...	6·4 N	7·1 W	57 ...	·885	81·8	·916	·172	...	3·4 N	2·9 W
21 ...	·826	79·6	·776	·240	...	7·7 N	7·0 W	58 ...	·861	81·6	·847	·234	...	5·5 N	2·6 W
22 ...	·824	80·0	·828	·199	...	0·3 N	5·1 W	59 ...	·827	81·0	·813	·250	...	5·1 N	0·7 W
23 ...	·827	81·8	·846	·244	...	3·7 N	7·3 W	60 ...	·809	81·0	·721	·345	...	4·2 N	0·9 E
24 ...	·785	82·6	·820	·299	...	7·7 N	7·5 W	61 ...	·819	79·5	·736	·276	...	4·0 N	1·9 W
25 ...	·771	83·1	·910	·225	...	0·7 N	5·9 W	62 ...	·907	81·8	·854	·232	...	0·9 N	2·1 W
26 ...	·760	84·4	·923	·261	...	3·3 S	4·5 W	63 ...	·911	80·5	·745	·301	...	2·1 N	0·0
27 ...	·807	85·1	·911	·300	...	2·9 S	5·7 W	64 ...	·921	80·6	·715	·335	...	3·3 N	0·5 E
28 ...	·805	85·4	·873	·347	...	0·2 N	6·6 W	65 ...	·917	80·5	·711	·337	...	3·3 N	1·2 E
29 ...	·764	85·6	·890	·340	...	1·8 N	8·7 W	66 ...	·943	82·0	·742	·356	...	4·0 N	0·8 E
30 ...	·729	86·4	·924	·337	...	3·1 S	7·6 W	67 ...	·983	78·2	·626	·346	...	4·8 N	0·5 E
31 ...	·741	86·3	·886	·370	...	2·6 S	7·4 W	68 ...	·951	77·3	·621	·324	...	5·4 N	1·6 E
32 ...	·698	84·9	·919	·282	0·88	1·2 S	3·5 W	69 ...	·943	78·5	·626	·357	...	6·2 N	2·3 E
33 ...	·742	81·5	·923	·155	4·52	6·1 S	1·1 W	70 ...	·901	76·2	·623	·286	...	4·6 N	0·5 W
34 ...	·649	80·7	·915	·134	1·85	4·8 S	3·2 W	71 ...	·872	74·8	·644	·222	...	5·3 N	0·9 W
35 ...	·560	81·6	·950	·132	4·23	7·4 S	6·2 W	72 ...	·933	76·9	·661	·269	...	8·1 N	2·4 W
36 ...	·688	83·2	·957	·181	1·43	6·2 S	11·4 W	73 ...	·913	76·6	·649	·272	...	4·2 N	0·5 W
37 ...	·634	82·7	·949	·169	1·11	4·0 S	15·3 W								

* Five-day sums, *not means*.

Barometric Pressure, 1907.

TABLE I*a*.—*Daily and Monthly Means.*

Height of the Barometer above mean sea-level=37 feet.

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1	29·977	29·905	29·870	29·862	29·790	29·722	29·678	29·662	29·778	29·819	29·835	29·909
2	·976	·874	·839	·867	·788	·729	·663	·670	·793	·819	·848	·905
3	·939	·896	·877	**·874**	·762	·722	·672	·650	·818	·786	·902	·904
4	·941	·905	·897	·869	·750	·709	·690	·654	·807	·768	·887	·917
5	·951	·919	**·927**	·865	·753	·767	·728	·639	**·772**	**·760**	·847	·951
6	·929	·939	·920	·821	·771	·783	·744	**·619**	·780	·775	·846	·932
7	·889	**·983**	·901	·803	·756	·761	·744	·636	·785	·813	·878	·890
8	·887	·953	·908	·826	·744	·695	·744	·646	·801	·817	·868	·881
9	·922	·949	·922	·836	·759	·622	·769	·620	·782	·815	·861	·910
10	·956	·941	·887	·769	·807	·596	**·790**	·626	·785	·852	·878	·921
11	·931	·926	·871	·766	·827	·584	·755	·647	·819	**·895**	·865	·950
12	·923	·910	·862	·818	·827	·552	·701	·700	·843	·873	·858	·913
13	·948	·893	·814	·834	·794	·536	·664	·694	·858	·847	·872	·887
14	·955	·869	**·800**	·800	·779	·525	·669	·670	**·862**	**·854**	·852	·933
15	·957	**·857**	·841	·778	·790	**·524**	·720	·658	·844	·857	·835	·916
16	·965	·907	·873	·780	·828	·546	·667	·671	·836	·829	**·816**	·911
17	·940	·899	·871	·775	·851	·587	·580	·698	·845	·817	·846	·916
18	·917	·910	·909	·784	·874	·630	·558	·743	·847	·812	·873	·890
19	·908	·932	·904	·812	**·878**	·719	·565	·722	·866	·808	**·921**	**·875**
20	·947	·960	·884	·784	·858	·790	·572	·730	·860	·774	·896	·911
21	·948	·933	·882	·799	·859	**·791**	·568	·740	·830	·804	·859	·921
22	·901	·917	·884	·837	·840	·738	·538	·739	·835	·825	·875	·919
23	·910	·927	·880	·806	·820	·703	**·522**	·751	·837	·823	·888	·964
24	·943	·909	·883	·786	·790	·691	·538	·737	·858	·815	·890	·970
25	·945	·902	·884	·795	·776	·674	·545	·748	·836	·845	·880	·954
26	·914	·929	·889	·793	·772	·664	·556	·779	·825	·868	·870	·952
27	**·861**	·928	·881	**·764**	·765	·661	·572	·766	·804	·875	·833	·934
28	·870	·919	·854	·795	·776	·677	·625	·756	·790	·883	·825	·947
29	·914		·855	·783	·772	·655	·631	·780	·793	·877	·879	**·989**
30	·934		·863	·774	·740	·673	·598	**·811**	·832	·833	·876	·962
31	·946		·866		**·733**		·637	·799		·817		·961
Monthly Mean	29·931	29·917	29·877	29·809	29·794	29·668	29·645	29·702	29·820	29·827	29·865	29·926
Annual Variation.	+·116	+·102	+·062	−·006	−·021	−·147	−·170	−·113	+·005	+·012	+·050	+·111

In.

Annual mean ... ... 29·815

TABLE I*b*.—*Showing the mean diurnal inequality of the Barometric Pressure for each month of the year 1907, and for the whole year.*

Unity = 0·001 inch.

1907. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 7	+ 5	+ 11	+ 9	+ 12	+ 2	+ 11	+ 12	+ 5	+ 2	+ 3	+ 1	0	+ 6
1 7	− 6	− 2	− 6	0	− 12	− 11	− 7	− 11	− 14	− 13	− 11	− 11	− 9
2 7	− 20	− 15	− 21	− 16	− 22	− 22	− 21	− 26	− 25	− 25	− 23	− 22	− 21
3 7	− 27	− 24	− 28	− 21	− 24	− 26	− 29	**− 34**	− 30	− 27	− 28	− 29	− 27
4 7	− 26	− 24	− 26	− 19	− 18	− 26	− 28	− 33	− 27	− 23	− 24	− 26	− 25
5 7	− 17	− 15	− 15	− 7	− 7	− 19	− 21	− 25	− 16	− 10	− 12	− 15	− 15
6 7	− 1	+ 3	+ 4	+ 8	+ 12	− 4	− 4	− 12	0	+ 9	+ 8	+ 3	+ 2
7 7	+ 23	+ 25	+ 26	+ 29	+ 31	+ 14	+ 10	+ 6	+ 20	+ 30	+ 31	+ 25	+ 22
8 7	+ 47	+ 47	+ 49	+ 49	+ 47	+ 25	+ 23	+ 22	+ 39	+ 47	+ 51	+ 50	+ 41
9 7	+ 65	+ 64	+ 62	**+ 60**	**+ 54**	+ 32	+ 31	+ 33	+ 49	**+ 58**	**+ 65**	**+ 64**	**+ 53**
10 7	**+ 66**	**+ 66**	**+ 65**	+ 57	+ 54	**+ 33**	**+ 35**	**+ 38**	**+ 51**	+ 57	+ 59	+ 61	+ 53
11 7	+ 46	+ 50	+ 52	+ 47	+ 43	+ 28	+ 31	+ 34	+ 38	+ 37	+ 37	+ 43	+ 40
12 7	+ 13	+ 20	+ 24	+ 23	+ 24	+ 17	+ 18	+ 20	+ 15	+ 9	+ 7	+ 12	+ 17
13 7	− 19	− 10	− 6	− 7	0	0	− 2	+ 5	− 10	− 17	− 24	− 22	− 9
14 7	− 44	− 38	− 34	− 35	− 23	− 16	− 13	− 11	− 30	− 39	− 45	− 43	− 31
15 7	**− 54**	− 57	− 51	− 56	− 41	− 31	− 29	− 25	**− 44**	**− 51**	**− 54**	**− 53**	− 45
16 7	− 52	**− 59**	**− 55**	**− 64**	**− 50**	**− 38**	**− 37**	− 32	− 44	− 49	− 53	− 50	**− 49**
17 7	− 41	− 51	− 47	− 59	− 46	− 37	− 33	− 27	− 37	− 38	− 41	− 40	− 41
18 7	− 26	− 38	− 36	− 42	− 35	− 26	− 21	− 18	− 21	− 25	− 25	− 23	− 28
19 7	− 5	− 16	− 17	− 22	− 20	− 7	− 4	− 2	− 3	− 3	− 1	− 3	− 9
20 7	+ 13	+ 5	+ 1	− 2	− 4	+ 11	+ 10	+ 11	+ 12	+ 17	+ 19	+ 16	+ 9
21 7	+ 25	+ 20	+ 18	+ 17	+ 12	+ 23	+ 22	+ 25	+ 25	+ 24	+ 27	+ 25	+ 22
22 7	+ 22	+ 24	+ 22	+ 24	+ 20	+ 29	+ 30	+ 31	+ 25	+ 22	+ 24	+ 24	+ 25
23 7	+ 13	+ 19	+ 17	+ 20	+ 15	+ 28	+ 23	+ 23	+ 17	+ 14	+ 15	+ 15	+ 18
Range ...	120	125	120	124	104	71	72	72	95	109	119	117	102

Temperature of the Air, 1907.

TABLE IIa.—*Daily and Monthly Means.*

1907 Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1 ...	79·5	**69·8**	79·8	**84·1**	82·6	85·9	83·2	**81·8**	79·8	81·6	81·3	77·9
2 ...	**81·0**	71·1	78·7	83·5	82·5	**86·9**	82·8	81·1	80·4	82·3	82·1	**78·3**
3 ...	77·4	72·7	78·2	83·1	82·6	85·1	78·8	79·8	80·7	84·3	82·1	76·7
4 ...	76·1	74·6	78·4	82·5	83·3	86·1	78·8	81·1	80·4	**84·4**	81·7	75·2
5 ...	76·2	75·1	77·8	81·9	84·2	85·3	82·4	80·9	80·3	83·2	80·8	74·7
6 ...	76·1	74·8	76·5	81·6	83·6	85·3	82·8	81·2	79·9	82·7	82·0	74·1
7 ...	76·3	73·9	**76·5**	81·5	83·9	85·3	83·0	80·8	79·8	82·5	**83·0**	74·5
8 ...	75·3	74·1	77·8	83·3	83·7	85·5	83·5	80·5	**78·6**	82·2	82·3	**73·8**
9 ...	74·4	76·2	78·0	83·9	82·4	85·0	83·7	78·3	78·8	81·5	81·5	74·8
10 ...	73·0	75·7	76·7	84·1	**82·1**	85·2	**84·2**	80·0	80·0	80·7	81·4	76·7
11 ...	73·5	75·5	77·4	82·6	82·1	84·1	83·7	78·9	80·2	80·4	80·4	76·1
12 ...	77·3	75·1	77·0	**80·7**	82·9	83·5	83·8	**76·5**	80·6	81·9	81·0	75·1
13 ...	78·2	73·6	76·6	80·7	84·2	85·3	83·5	78·3	79·7	83·1	81·3	76·9
14 ...	77·1	74·0	77·0	81·4	84·6	85·4	83·2	78·7	80·4	82·4	80·0	77·2
15 ...	76·3	75·9	77·3	81·8	84·5	83·1	83·1	78·2	80·8	82·2	78·7	76·9
16 ...	74·5	77·1	78·3	82·0	84·1	78·8	80·5	79·4	81·2	81·0	77·2	76·2
17 ...	73·9	77·0	78·4	80·8	84·0	**78·2**	**78·1**	79·9	81·6	81·1	**77·9**	74·1
18 ...	75·7	76·0	78·0	81·1	84·1	78·5	79·4	79·2	81·1	81·5	78·6	76·8
19 ...	76·1	74·1	78·2	82·2	84·3	82·4	79·1	78·9	81·0	81·4	80·6	77·3
20 ...	75·6	72·4	78·4	82·9	84·5	83·7	81·4	79·7	80·8	81·1	82·0	75·1
21 ...	75·5	74·1	78·5	83·8	84·6	83·5	78·9	79·5	81·5	80·8	82·4	73·8
22 ...	75·2	75·0	79·4	83·8	84·6	82·9	78·6	79·9	**81·8**	80·0	80·9	77·4
23 ...	74·8	75·5	80·0	83·7	84·6	83·5	79·3	79·6	80·9	**79·3**	79·6	78·3
24 ...	72·9	75·5	79·8	82·8	84·7	82·1	81·0	80·1	80·5	80·2	80·5	76·4
25 ...	73·1	77·8	80·3	83·2	84·8	83·0	81·4	79·3	81·2	81·8	79·2	74·7
26 ...	74·3	78·8	80·8	82·2	85·1	80·5	79·4	79·6	80·8	81·7	78·8	74·4
27 ...	76·6	79·0	80·3	81·9	85·0	82·0	78·2	79·3	79·9	81·5	78·6	74·5
28 ...	77·7	**79·7**	80·7	81·8	85·2	83·3	80·9	79·6	81·2	81·8	81·4	75·1
29 ...	76·4		80·5	81·8	85·3	83·6	79·3	80·4	81·3	83·0	81·6	75·4
30 ...	74·6		81·4	82·7	85·3	83·7	80·6	79·6	79·4	80·8	80·2	74·4
31 ...	**72·3**		**83·8**		**85·8**		81·0	79·4		80·2		74·1
Monthly Mean ...	75·7	75·1	78·7	82·4	84·0	83·5	81·2	79·7	80·5	81·7	80·7	75·7
Annual Variation.	−4·2	−4·8	−1·2	+2·5	+4·1	+3·6	+1·3	−9·2	+0·6	+1·8	+0·8	−4·2

Annual mean ... ... 79·9

TABLE IIb.—*Showing the mean diurnal inequality of the temperature of the air for each month of the year 1907, and for the whole year.*

1907 Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October	November.	December.	Year.
H. m.	°	°	°	°	°	°	°	°	°	°	°	°	°
0 2	−2·0	−2·1	−2·0	−1·7	−2·1	−1·4	−0·7	−0·7	−1·4	−1·7	−2·7	−2·9	−1·8
1 2	−2·4	−2·5	−2·4	−2·1	−2·4	−1·5	−1·0	−1·0	−1·6	−2·0	−3·1	−3·5	−2·1
2 2	−2·8	−3·0	−2·6	−2·3	−2·7	−2·1	−1·0	−1·0	−1·7	−2·3	−3·1	−3·8	−2·4
3 2	−3·2	−3·3	−3·1	−2·7	−3·0	−2·0	−1·3	−1·1	−2·1	−2·6	−3·4	−4·2	−2·7
4 2	−3·7	−3·5	−3·4	−2·9	−3·3	−2·1	−1·3	−1·0	−2·2	−3·1	−3·6	−4·3	−2·9
5 2	−4·1	−4·1	−3·8	**−3·3**	**−3·6**	**−2·3**	**−1·5**	**−1·2**	**−2·4**	−3·4	−4·0	−4·6	−3·2
6 2	−4·4	−4·3	**−4·1**	−3·3	−3·4	−2·1	−1·4	−1·1	−2·4	**−3·7**	**−4·3**	**−4·8**	**−3·3**
7 2	**−4·6**	**−4·7**	−3·8	−2·3	−2·1	−1·4	−1·3	−0·9	−1·9	−3·0	−4·0	4·8	−2·9
8 2	−3·3	−3·0	−1·7	−0·6	−0·4	−0·4	−0·5	−0·4	−0·9	−1·7	−2·6	−3·5	−1·6
9 2	−1·9	−1·2	+0·1	+0·8	+1·0	+0·8	+0·3	+0·2	+0·2	−0·4	−1·0	−1·8	−0·2
10 2	+0·4	+1·2	+2·0	+2·4	+2·3	+2·0	+0·9	+0·9	+1·3	+1·3	+1·2	+1·0	+1·4
11 2	+2·5	+3·0	+3·2	+3·2	+3·2	+2·5	+1·0	+1·3	+2·1	+2·6	+3·4	+3·1	+2·6
12 2	+4·5	+4·0	+3·9	+3·8	+4·0	+3·2	+1·5	**+1·7**	+2·7	+3·6	+5·1	+5·5	+3·6
13 2	+5·6	+4·7	+4·4	**+4·0**	+4·2	+3·2	**+1·8**	+1·7	+3·0	+4·2	+5·9	+6·9	+4·1
14 2	**+5·9**	**+5·2**	**+4·7**	+4·0	**+4·5**	**+3·3**	+1·8	+1·7	**+3·3**	**+4·5**	**+6·2**	**+7·5**	**+4·4**
15 2	+5·6	+4·9	+4·6	+3·6	+4·4	+2·7	+1·5	+1·5	+2·9	+4·2	+5·8	+7·2	+4·1
16 2	+5·0	+4·6	+4·1	+2·9	+3·7	+2·1	+1·5	+1·1	+2·6	+3·6	+4·3	+5·9	+3·4
17 2	+3·3	+3·3	+2·8	+1·9	+2·4	+1·4	+0·8	+0·4	+1·5	+2·1	+2·3	+3·5	+2·1
18 2	+1·6	+1·6	+1·0	+0·4	+0·5	+0·3	+0·3	0·0	+0·4	+0·8	+1·0	+1·7	+0·8
19 2	+0·8	+0·9	+0·1	−0·4	−0·6	−0·4	+0·1	−0·4	−0·2	+0·3	0·4	+0·8	+0·1
20 2	+0·2	+0·5	−0·3	−0·6	−1·0	−0·9	0·0	−0·5	−0·6	−0·1	−0·1	+0·1	−0·3
21 2	−0·5	+0·1	−0·6	−1·0	−1·4	−1·2	−0·2	−0·7	−0·9	−0·7	−0·8	−0·7	−0·7
22 2	−1·1	−0·5	−1·0	−1·1	−1·5	−1·2	−0·4	−0·5	−0·9	−1·0	−1·4	−1·6	−1·0
23 2	−1·9	−1·2	−1·6	−1·6	−1·8	−1·3	−0·6	−0·8	−1·2	−1·5	−2·3	−2·5	−1·5
Range ...	10·5	9·9	8·8	7·3	8·1	5·6	3·3	2·9	3·7	8·2	10·5	12·3	7·7

Temperature of the Air, 1907.

TABLE IIc.—*Showing the Maximum Temperature of the air on each day during the year 1907.*

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1	88·9	79·2	88·7	91·3	89·9	92·2	87·1	85·3	84·7	88·6	90·2	87·1
2	88·6	81·1	88·1	92·5	89·6	92·4	88·9	84·1	85·7	87·1	93·2	88·6
3	86·5	80·0	86·5	92·5	89·5	91·4	82·1	82·6	86·1	89·6	92·2	86·1
4	86·0	82·1	86·2	91·5	91·2	92·1	81·7	84·2	85·3	90·2	90·3	85·7
5	88·1	83·3	87·4	90·2	92·2	91·4	86·1	83·1	85·0	89·1	88·9	85·6
6	85·7	81·1	84·9	89·0	92·1	91·0	87·1	84·2	84·8	89·1	91·8	84·8
7	84·6	82·1	84·6	89·1	92·2	91·4	87·2	83·2	85·1	89·1	93·0	85·7
8	83·1	83·1	86·1	90·7	91·2	91·8	88·1	82·1	84·1	89·1	90·5	84·0
9	81·6	83·6	85·2	90·4	89·1	92·0	88·0	79·2	83·6	88·1	89·2	86·0
10	80·4	83·6	84·6	91·5	89·0	93·7	89·1	83·1	85·1	87·9	90·2	89·0
11	82·9	84·8	85·8	90·4	88·0	92·5	88·0	81·2	85·0	87·5	89·1	86·0
12	87·8	83·2	84·9	89·1	90·2	89·4	88·1	77·2	84·9	88·6	91·2	85·1
13	87·9	83·1	85·8	88·9	91·4	89·7	88·4	81·6	84·2	90·4	91·7	87·7
14	85·6	83·1	85·5	88·6	93·0	92·1	88·9	81·7	85·8	88·9	87·9	87·1
15	84·6	85·1	84·3	89·1	91·5	89·2	87·0	81·1	86·3	87·4	87·3	86·8
16	84·1	85·9	87·7	88·2	90·7	81·6	85·1	81·9	87·1	86·6	86·6	85·3
17	84·4	84·9	86·1	85·1	90·4	80·0	82·7	84·0	87·1	87·0	86·1	84·7
18	87·1	83·1	86·1	88·2	90·9	81·1	83·1	82·3	87·1	88·2	86·7	90·2
19	87·7	82·8	87·1	89·1	91·2	86·6	82·2	82·1	87·2	89·1	87·5	85·3
20	86·9	82·6	86·5	90·0	92·2	87·3	85·7	83·1	87·6	88·6	89·2	83·1
21	85·3	84·3	86·0	91·2	92·2	88·0	81·2	82·4	88·1	88·1	90·0	84·1
22	85·1	84·4	85·7	90·7	92·0	86·6	80·8	83·7	88·2	86·5	89·3	87·2
23	84·1	83·9	86·0	87·0	91·4	87·7	81·6	83·9	86·0	85·5	88·2	86·9
24	81·7	83·6	86·6	91·0	91·3	85·1	82·5	84·1	86·7	86·6	90·0	85·1
25	82·4	86·5	87·1	90·5	91·2	89·1	82·2	83·0	87·9	89·9	89·1	85·4
26	83·1	86·6	88·2	88·1	92·2	83·1	81·9	83·5	85·8	88·1	88·1	84·9
27	85·6	87·3	87·2	89·1	92·0	85·3	79·9	83·2	86·9	89·6	88·1	83·9
28	85·6	88·7	88·3	89·2	92·1	87·6	84·4	84·0	88·3	88·7	88·9	84·1
29	83·8		88·1	89·1	91·8	88·1	80·7	85·1	86·4	92·8	87·8	83·1
30	81·9		88·1	89·8	91·6	87·2	84·1	84·1	83·1	88·7	88·4	82·6
31	80·0		90·4		93·2		85·3	84·4		90·4		83·3
Monthly Mean.	84·9	83·7	86·6	89·7	91·2	88·6	84·8	82·9	86·0	88·6	89·4	85·6

Annual Mean ... ... 86·8

The greatest maximum temperature recorded during the year (that of 10th June) was ... 93·7

TABLE IId.—*Showing the Minimum Temperature of the air on each day during the year 1907.*

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1	73·8	63·3	72·9	79·3	78·9	81·9	80·9	78·2	75·4	77·7	74·8	72·4
2	76·4	64·3	72·8	77·4	78·9	83·2	80·4	78·6	76·9	78·4	75·4	73·1
3	72·5	68·3	72·7	79·3	78·4	80·4	75·9	76·4	77·4	80·8	76·4	72·1
4	70·4	69·7	73·8	76·0	79·4	83·4	74·9	77·7	77·7	80·9	76·2	69·3
5	70·5	70·3	72·3	77·2	79·4	81·4	79·4	77·5	77·6	79·1	76·4	68·3
6	70·7	69·3	72·7	77·1	78·4	81·3	78·4	79·4	76·6	79·3	76·3	67·3
7	71·5	68·8	72·3	77·4	78·4	79·4	79·4	79·4	75·4	79·2	77·6	68·8
8	71·5	67·3	72·8	79·6	78·4	81·6	80·8	79·4	75·4	77·4	78·0	68·3
9	71·0	72·2	74·4	80·0	78·0	81·8	80·0	75·6	74·4	77·4	76·8	68·5
10	68·3	71·1	73·0	79·8	77·4	81·4	80·4	75·9	76·4	76·4	75·5	70·5
11	66·3	70·3	73·7	79·4	76·9	80·7	81·2	76·4	76·9	76·4	75·4	69·3
12	70·7	69·5	73·7	76·2	79·0	75·8	80·5	74·9	77·4	78·5	74·5	68·3
13	73·1	68·3	71·8	77·2	79·5	81·2	80·4	74·6	76·2	78·4	74·6	70·3
14	72·9	69·9	70·7	77·4	80·4	81·9	79·6	76·4	76·6	78·4	74·4	70·3
15	71·3	71·4	73·8	78·2	80·8	80·4	81·2	75·7	77·7	78·9	72·9	70·5
16	68·3	72·9	73·8	78·4	80·4	76·4	77·9	77·4	77·8	77·4	73·3	70·7
17	66·3	73·7	74·5	79·4	79·4	75·4	75·6	77·4	78·4	77·0	72·9	68·3
18	70·3	73·2	73·8	78·3	80·4	76·9	75·6	76·7	77·4	77·0	73·3	69·5
19	70·1	70·8	72·3	79·2	80·8	76·4	77·3	76·4	77·4	75·4	77·4	73·3
20	69·3	65·3	72·1	80·0	81·4	81·4	76·6	77·1	76·9	75·4	77·4	69·4
21	70·3	67·0	73·4	80·6	81·4	80·5	75·6	76·4	78·4	77·3	77·4	67·2
22	69·3	68·3	74·8	80·9	81·7	80·8	76·4	78·4	79·7	76·7	76·4	71·3
23	67·7	68·4	76·2	80·6	81·2	78·3	76·4	77·6	78·9	76·9	73·8	74·4
24	67·5	71·2	75·8	79·4	80·9	78·0	73·5	77·4	77·5	76·5	75·4	70·3
25	66·3	71·3	75·6	79·6	80·4	77·4	80·2	77·0	78·8	76·8	72·8	68·3
26	68·5	73·7	76·2	80·2	81·2	77·4	77·4	77·2	79·4	77·4	73·2	68·3
27	69·3	73·3	75·5	77·9	80·8	79·9	75·4	75·2	75·8	76·0	72·8	69·1
28	72·3	73·3	75·4	77·4	80·7	80·4	76·4	77·0	77·4	77·2	76·4	70·3
29	72·7		74·1	76·9	80·9	81·4	76·4	77·4	78·9	77·6	77·7	70·1
30	72·2		75·8	78·4	81·6	82·2	76·4	77·4	75·4	75·9	75·4	69·3
31	69·9		77·6		82·0		78·4	76·8		73·8		67·2
Monthly Mean.	70·4	69·9	73·9	78·6	79·9	80·0	78·0	77·1	77·2	77·5	75·4	69·8

Annual Mean ... ... 75·6

The least minimum temperature recorded during the year (that of 1st February) was ... 63·3

Pressure of Vapour, 1907.

TABLE IIIa.—*Daily and Monthly Means.*

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1	0·793	0·447	0·623	0·738	0·846	0·871	0·943	0·935	0·811	0·913	0·704	0·545
2	·718	·485	·653	·787	·800	·940	·922	·903	·832	·968	·738	·548
3	·604	·562	·702	·855	·830	·919	·916	·904	·832	·992	·764	·486
4	·606	·606	·628	·796	·803	·899	·9[illegible]3	·914	·847	·951	·745	·512
5	·600	·655	·681	·776	·780	·921	·931	·911	·835	·939	·752	·547
6	·633	·644	·726	·752	·804	·944	·910	·902	·833	·964	·751	·569
7	·677	·575	·723	·833	·838	·911	·905	·883	·824	·950	·739	·551
8	·686	·575	·732	·842	·855	·883	·906	·882	·833	·884	·767	·598
9	·589	·662	·756	·877	·809	·874	·901	·874	·808	·864	·804	·614
10	·521	·695	·726	·813	·771	·922	·912	·885	·799	·829	·732	·602
11	·549	·671	·664	·851	·778	·950	·938	·867	·797	·890	·660	·591
12	·660	·581	·660	·814	·847	·921	·917	·853	·797	·961	·664	·558
13	·690	·554	·669	·828	·870	·886	·947	·881	·810	·938	·650	·605
14	·660	·618	·743	·849	·884	·920	·951	·873	·824	·915	·660	·570
15	·621	·708	·783	·838	·896	·917	·942	·865	·832	·968	·660	·525
16	·589	·740	·744	·800	·875	·906	·933	·869	·829	·916	·685	·507
17	·551	·744	·677	·791	·864	·896	·895	·879	·815	·885	·701	·533
18	·613	·724	·642	·771	·851	·911	·910	·870	·839	·871	·773	·611
19	·606	·549	·606	·815	·855	·939	·909	·854	·840	·815	·834	·665
20	·632	·439	·684	·799	·873	·937	·936	·867	·878	·851	·836	·530
21	·622	·525	·717	·814	·860	·914	·885	·862	·935	·875	·765	·581
22	·610	·591	·782	·751	·858	·906	·911	·857	·938	·866	·644	·659
23	·623	·668	·793	·712	·846	·915	·908	·855	·894	·816	·722	·571
24	·669	·724	·805	·783	·830	·917	·933	·861	·881	·873	·713	·533
25	·628	·699	·844	·743	·848	·939	·929	·856	·906	·882	·697	·557
26	·681	·722	·833	·843	·859	·936	·925	·857	·898	·879	·629	·564
27	·739	·704	·804	·796	·880	·954	·889	·856	·864	·816	·630	·612
28	·781	·644	·764	·807	·868	·963	·895	·845	·927	·867	·791	·620
29	·695	...	·776	·837	·862	·961	·891	·826	·939	·796	·875	·673
30	·643	...	·849	·839	·881	·947	·915	·811	·899	·733	·659	·650
31	·560	...	·786	...	·900	...	·917	·802	...	·706	...	·578
Monthly Mean	0·640	0·625	0·728	0·805	0·846	0·921	0·917	0·870	0·853	0·883	0·725	0·576
Annual Variation.	−·142	−·157	−·054	+·023	+·064	+·139	+·135	+·088	+·071	+·101	−·057	−·206

TABLE IIIb.—*Showing the mean diurnal inequality of the Pressure of Vapour for each month of the year 1907, and for the whole year.*

Unity = 0·001 inch.

1907. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year
H. m.													
0 2	+ 5	− 9	− 1	0	+ 4	− 15	− 4	− 8	− 13	+ 13	+ 2	− 2	− 2
1 2	+ 10	− 7	+ 2	− 10	− 5	− 18	− 11	− 12	− 13	+ 13	− 12	− 5	− 6
2 2	+ 9	− 3	+ 3	− 6	− 8	− 25	− 11	− 9	− 16	+ 7	+ 13	− 16	− 5
3 2	− 7	− 6	− 6	− 10	− 19	− 19	− 18	− 18	− 20	− 1	− 2	− 21	− 12
4 2	− 21	− 9	− 7	− 8	− 20	− 21	− 18	− 8	− 22	− 16	− 13	− 30	− 16
5 2	− 35	− 23	− 26	− 16	− 24	− 24	− 19	− 17	− 23	− 30	− 25	− 40	− 25
6 2	− 38	− 33	− 42	− 19	− 16	− 12	− 12	− 11	− 13	− 34	− 29	− 53	− 26
7 2	− 41	− 38	− 44	− 10	− 12	− 12	− 11	− 14	+ 1	− 20	− 29	− 62	− 24
8 2	− 28	− 31	− 29	− 10	− 7	− 2	+ 2	− 1	+ 9	− 20	− 23	− 59	− 17
9 2	− 23	− 22	− 24	− 19	− 3	− 1	+ 10	+ 5	+ 16	− 9	− 34	− 57	− 13
10 2	− 23	− 21	− 26	− 11	0	+ 15	+ 20	+ 16	+ 31	− 11	− 28	− 49	− 7
11 2	− 25	− 10	− 8	− 14	0	+ 24	+ 14	+ 16	+ 24	− 9	− 43	− 36	− 6
12 2	− 35	+ 14	+ 17	+ 13	+ 15	+ 32	+ 20	+ 24	+ 27	− 10	− 35	− 53	+ 2
13 2	− 23	+ 23	+ 29	+ 8	+ 15	+ 29	+ 17	+ 21	+ 27	+ 7	− 22	− 35	+ 8
14 2	+ 19	+ 36	+ 33	+ 15	+ 10	+ 29	+ 17	+ 23	+ 32	+ 18	− 8	+ 4	+ 19
15 2	+ 32	+ 36	+ 30	+ 15	+ 10	+ 18	+ 13	+ 14	+ 20	+ 28	+ 14	+ 33	+ 22
16 2	+ 56	+ 33	+ 27	+ 8	+ 12	+ 16	+ 16	+ 13	+ 13	+ 26	+ 40	+ 76	+ 28
17 2	+ 53	+ 28	+ 23	+ 5	+ 3	+ 11	0	+ 1	− 6	+ 13	+ 47	+ 90	+ 22
18 2	+ 49	+ 24	+ 20	+ 11	+ 6	+ 8	0	− 5	− 13	+ 6	+ 51	+ 99	+ 21
19 2	+ 40	+ 14	+ 15	+ 10	+ 5	− 3	− 5	− 5	− 18	+ 6	+ 51	+ 83	+ 16
20 2	+ 37	+ 12	+ 18	+ 18	+ 4	− 8	− 8	− 4	− 9	+ 9	+ 42	+ 68	+ 15
21 2	+ 17	+ 10	+ 12	+ 17	+ 7	− 11	− 7	− 8	− 9	+ 10	+ 28	+ 50	+ 10
22 2	− 2	+ 1	− 7	+ 8	+ 8	− 5	− 5	− 9	− 9	+ 7	+ 7	+ 18	+ 1
23 2	− 16	− 7	− 3	+ 6	+ 6	− 15	− 10	− 12	− 10	+ 2	+ 6	+ 2	− 4
Range ...	97	74	77	37	39	57	39	42	55	62	94	161	54

Annual mean ... ... Inch. 0·782

TABLE IV*a*.—*Daily and Monthly Means.*

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	0·220	0·287	**0·398**	0·437	**0·271**	**0·371**	0·194	0·152	0·209	0·170	0·372	0·416
2 ...	·310	·285	·331	·364	·314	·342	·201	·159	·206	·137	·369	·428
3 ...	**·341**	·248	·266	·281	·287	·294	·071	·114	·217	·187	·342	**·437**
4 ...	·301	·253	·346	·321	·340	·353	·083	·147	·192	·230	·344	·369
5 ...	·312	·219	·277	·319	**·399**	·298	·188	·143	·200	·200	·304	·323
6 ...	·275	·218	·187	·328	·351	·275	·214	·164	·190	·156	·348	·281
7 ...	·232	·265	·191	·246	·330	·306	·225	·169	·195	·165	·398	·313
8 ...	·193	·275	·224	·300	·304	·343	·244	·158	·147	·217	·337	·243
9 ...	·262	·245	·205	·289	·302	·332	·254	·095	·178	·212	·275	·259
10 ...	·292	·197	·194	·359	·329	·293	**·262**	·140	·225	·223	·345	·328
11 ...	·285	·215	·279	·264	·323	·227	·216	·121	·234	·149	·384	·317
12 ...	·287	·293	·268	·239	·280	·232	·242	**·058**	·249	**·130**	·406	·319
13 ...	·281	·278	·249	**·222**	·305	·333	·201	·087	·206	·196	**·431**	·328
14 ...	·275	·226	·191	·228	·309	·302	·187	·109	·214	·193	·368	·374
15 ...	·291	·189	**·155**	·253	·291	·221	·191	·099	·221	·135	·325	·409
16 ...	·270	·192	·224	·304	·298	·077	·110	·136	·236	·144	·286	·406
17 ...	·292	·184	·298	·261	·305	·069	**·066**	·142	**·266**	·178	·259	·318
18 ...	·283	·174	·320	·291	·322	**·064**	·095	·126	·223	·208	·208	·325
19 ...	·305	·295	·367	·288	·326	·169	·086	·135	·219	·260	·213	·276
20 ...	·263	·365	·292	·327	·314	·217	·142	·146	·175	·212	·260	·345
21 ...	·267	·325	·264	·346	·334	·235	·103	·144	·144	·177	·345	·262
22 ...	·269	·282	·226	·407	·332	·220	·068	·163	·148	·158	·415	·289
23 ...	·245	·221	·232	**·445**	·346	·233	·094	·156	·162	·187	·293	·403
24 ...	**·143**	**·161**	·214	·342	·365	·179	·124	·166	·163	·160	·338	·384
25 ...	·191	·261	·193	·393	·353	·194	·142	·144	·160	·208	·309	·312
26 ...	·171	·265	·222	·260	·351	·104	·081	·156	·154	·207	·360	·297
27 ...	·182	·291	·234	·296	·328	·139	·077	·146	·163	·263	·354	·247
28 ...	·172	**·374**	·287	·280	·348	·178	·161	·168	·141	·224	·284	·258
29 ...	·216		·273	·253	·357	·191	·109	**·212**	·128	**·341**	**·205**	·212
30 ...	·214		·226	·284	·338	·207	·133	·202	**·104**	·324	·374	**·203**
31 ...	·233		·376		·339		·141	·205		·335		·270
Monthly Mean ...	0·254	0·253	0·258	0·308	0·326	0·233	0·152	**0·144**	0·189	0·203	**0·328**	0·321
Annual Variation.	+·007	+·006	+·011	+·061	+·079	−·014	−·095	−·103	−·058	−·044	+·081	+·074

Annual mean ... ... In. 0·247

TABLE IV*b*.—*Showing the mean diurnal inequality of the Additional Capacity of the Air for each month of the year 1907 and for the whole year.*

Unity = 0·001 inch.

1907. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 2	− 67	− 54	− 67	− 67	− 87	− 43	− 22	− 16	− 34	− 75	− 97	− 88	− 60
1 2	− 83	− 67	− 82	− 69	− 89	− 42	− 26	− 20	− 40	− 85	− 93	− 101	− 66
2 2	− 92	− 85	− 87	− 81	− 96	− 56	− 25	− 23	− 43	− 88	**− 118**	− 97	− 74
3 2	− 89	− 89	− 93	− 84	− 96	− 60	− 29	− 18	− 49	− 91	− 113	**− 103**	− 76
4 2	− 86	− 93	**− 101**	− 99	− 104	− 60	− 31	**− 26**	− 52	− 90	− 108	− 96	− 79
5 2	− 82	− 92	− 93	**− 102**	− 111	− 63	− 33	− 23	− 57	− 88	− 107	− 95	− 79
6 2	− 89	− 89	− 86	− 99	**− 112**	**− 68**	**− 38**	− 25	**− 66**	**− 91**	− 113	− 88	**− 80**
7 2	− 90	**− 94**	− 76	− 77	− 72	− 46	− 36	− 17	− 66	− 85	− 103	− 78	− 70
8 2	− 68	− 57	− 27	− 15	− 13	− 17	− 21	− 13	− 41	− 42	− 66	− 47	− 36
9 2	− 37	− 16	+ 23	+ 43	+ 36	+ 28	+ 1	0	− 10	− 7	− 5	− 3	+ 4
10 2	+ 32	+ 52	+ 92	+ 92	+ 84	+ 59	+ 11	+ 16	+ 13	+ 52	+ 64	+ 71	+ 53
11 2	+ 99	+ 95	+ 111	+ 127	+ 120	+ 73	+ 22	+ 28	+ 48	+ 99	+ 162	+ 125	+ 92
12 2	+ 173	+ 106	+ 114	+ 126	+ 140	+ 91	+ 35	+ 36	+ 66	+ 140	+ 217	+ 224	+ 122
13 2	**+ 200**	+ 118	+ 117	**+ 138**	+ 146	+ 95	**+ 50**	**+ 38**	+ 79	+ 144	+ 236	**+ 256**	**+ 135**
14 2	+ 168	**+ 121**	**+ 123**	+ 132	**+ 163**	**+ 97**	+ 47	+ 35	**+ 85**	**+ 146**	**+ 237**	+ 235	+ 132
15 2	+ 143	+ 113	+ 122	+ 120	+ 158	+ 84	+ 40	+ 36	+ 82	+ 124	+ 198	+ 195	+ 118
16 2	+ 101	+ 106	+ 107	+ 96	+ 130	+ 62	+ 36	+ 26	+ 76	+ 103	+ 113	+ 107	+ 89
17 2	+ 44	+ 68	+ 69	+ 60	+ 85	+ 37	+ 29	+ 14	+ 56	+ 62	+ 29	+ 11	+ 47
18 2	− 5	+ 19	+ 8	0	+ 8	0	+ 8	+ 5	+ 24	+ 21	− 20	− 58	+ 1
19 2	− 22	+ 6	− 17	− 28	− 35	− 16	+ 4	− 8	+ 13	+ 1	− 43	− 68	− 18
20 2	− 35	− 2	− 31	− 46	− 48	− 28	+ 3	− 12	− 11	− 17	− 51	− 72	− 29
21 2	− 35	− 13	− 36	− 57	− 65	− 36	− 5	− 14	− 21	− 37	− 61	− 79	− 38
22 2	− 34	− 19	− 30	− 54	− 70	− 43	− 11	− 9	− 24	− 45	− 61	− 72	− 39
23 2	− 46	− 32	− 52	− 66	− 78	− 40	− 14	− 14	− 32	− 56	− 86	− 81	− 50
Range ...	292	215	224	240	275	165	88	64	151	231	355	359	215

Rainfall, 1907

TABLE Va—*Total fall of Rain (in inches) as measured by F. Chambers's self-registering Gauge, the funnel of which is 28 feet above the ground.*

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
		In.		In.		In.	In.	In.	In.	In.		
1	...	...	...	...	...	...	0·06	0·28	0·07	...	...	...
2	...	...	...	...	...	...	0·12	0·05	0·02	...	...	...
3	...	...	...	...	...	0·18	7·29	0·68	...	...	...	...
4	...	...	...	...	...	0·02	5·96	0·04	0·18	...	...	...
5	...	...	...	...	...	...	0·02	0·16	0·14	...	...	...
6	...	...	0·25	...	...	0·10	0·06	0·07	0·10	..	...	...
7	...	...	...	...	...	0·07	0·15	0·15	0·02	...	...	...
8	...	...	...	...	...	...	0·07	0·02	1·05	..	...	...
9	...	...	...	...	...	...	...	2·26	0·10	...	...	...
10	...	...	...	...	...	0·02	...	0·22	...	...	...	...
11	...	...	...	..	...	0·99	...	0·66	...	...	...	...
12	...	...	...	...	...	...	0·02	4·99	...	0·02	...	...
13	...	...	...	...	...	...	0·10	1·86	...	...	...	...
14	...	...	...	...	...	...	...	1·20	0·01	...	...	...
15	...	...	...	...	...	2·01	0·11	0·59	...	...	...	...
16	...	...	...	...	...	2·88	7·82	0·19	...	...	...	...
17	...	...	...	0·04	...	5·16	3·98	0·12	...	...	...	...
18	...	...	...	...	...	6·80	1·66	0·54	0·07	...	...	...
19	...	...	...	0·01	...	0·21	2·56	0·29	...	..	...	..
20	...	...	...	...	...	...	1·05	0·03	...	...	...	...
21	...	...	...	...	..	0·04	6·63	0·12	...	...	...	...
22	...	...	...	...	...	0·15	8·72	0·34	...	...	...	...
23	...	...	...	...	...	...	1·61	0·04	...	...	...	...
24	...	...	...	...	...	0·33	1·70	0·05	...	...	...	...
25	...	...	...	...	...	1·23	...	0·17	...	...	...	...
26	...	...	...	0·01	...	0·79	2·17	0·07	0·04	...	...	...
27	...	...	...	...	...	0·19	3·70	0·49	...	...	...	...
28	...	...	...	...	...	0·05	0·45	0·13	0·06	...	...	...
29	...	...		...	...	0·03	1·91	...	...	...	...	...
30	...	...	...	...	...	0·01	0·18	0·13	0·78	...	...	...
31	...	...		...	...		0·23	0·16		...		...
Monthly Total ...	...	0·25	...	0·06	...	21·26	58·33	16·10	2·64	0·02	...	...
Number of rainy days ...	...	1	...	3	...	20	26	30	13	1	...	...

	Inches.
Total fall of rain in the year	98·66
Total number of rainy days in the year	94
The greatest daily fall of rain in the year (that of 22nd July) was	8·72

No rain fell in the months of January, March, May, November and December, nor on any of the days left blank in the above table.

TABLE Vb—*Total fall of Rain (in inches) as measured by Newman's Gauge, placed 4½ feet above the ground.*

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
		In.		In.		In.	In.	In.	In	In.		
1	...	...	...	...	...	...	0·06	0·28	0·08	...	...	...
2	...	...	...	...	...	...	0·11	0·05	0·02	...	...	...
3	...	...	...	...	...	0·20	7·47	0·69	...	...	...	...
4	...	...	...	...	...	0·02	6·54	0·04	0·19	...	...	...
5	...	...	...	...	...	...	0·02	0·17	0·14	...	...	...
6	...	0·27	...	...	...	0·08	0·06	0·07	0·10	...	...	...
7	...	...	...	...	...	0·07	0·17	0·14	0·03	...	...	...
8	...	...	...	...	...	...	0·08	0·03	1·05	...	...	...
9	...	...	...	...	...	...	...	2·27	0·10	...	...	...
10	...	...	...	...	...	0·04	...	0·23	...	...	...	...
11	...	...	...	...	...	1·28	...	0·72	...	...	...	...
12	...	...	...	...	...	...	0·02	4·82	...	0·02	...	...
13	...	...	...	...	...	...	0·08	1·86	...	...	...	...
14	...	...	...	...	...	...	...	1·15	0·01	...	...	...
15	...	...	...	...	...	2·13	0·11	0·58	...	...	...	...
16	...	...	...	...	...	3·06	7·90	0·19	...	...	...	...
17	...	...	...	0·04	...	5·53	3·95	0·12	...	...	...	...
18	...	...	...	...	...	7·07	1·68	0·54	0·06	...	...	...
19	...	...	...	0·01	...	0·20	2·62	0·31	...	...	...	...
20	...	...	...	...	...	...	0·98	0·03	...	...	...	...
21	...	...	...	...	...	0·04	6·58	0·13	...	...	...	...
22	...	...	...	...	...	0·16	8·84	0·29	...	...	...	...
23	...	...	...	...	...	...	1·52	0·04	...	...	...	...
24	...	...	...	...	...	0·32	1·74	0·06	...	...	...	...
25	...	...	...	...	...	1·19	...	0·18	...	...	...	...
26	...	...	...	0·01	...	0·81	2·18	0·07	0·05	...	...	...
27	...	...	...	...	...	0·19	3·73	0·47	...	...	...	...
28	...	...	...	...	...	0·06	0·45	0·13	0·07	...	...	...
29	...	...		...	...	0·03	1·93	...	...	...	...	...
30	...	...	...	...	...	0·01	0·20	0·11	0·85	...	...	...
31	...	...		...	...		0·24	0·16		...		...
Monthly Total ...	...	0·27	...	0·06	...	22·49	59·26	15·93	2·75	0·02	...	...
Number of rainy days ...	...	1	...	3	...	20	26	30	13	1	...	...

	Inches.
Total fall of rain in the year	100·78
Total number of rainy days in the year	94
The greatest daily fall of rain in the year (that of 22nd July) was	8·84

No rain fell in the months of January, March, May, November and December, nor on any of the days left blank in the above table.

Velocity of Wind, 1907.

Robinson Beckley's Anemograph.

TABLE VI*a*.—*Mean velocity of the wind, in miles per hour, without regard to the direction from which it blew, for each day of Bombay civil time; also the mean monthly velocity, and its variation from the mean of the year.*

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
1 ...	8·3	8·9	**13·2**	7·0	9·2	6·7	12·4	18·2	**13·6**	7·1	8·3	12·3
2 ...	10·5	7·8	11·1	5·9	10·4	7·5	9·0	18·5	12·1	5·3	9·2	10·2
3 ...	8·7	**6·7**	10·1	9·5	8·9	21·6	9·5	21·1	10·6	**4·0**	7·7	10·3
4 ...	8·5	8·2	10·0	11·3	11·4	**24·1**	5·7	17·1	13·6	5·7	8·8	8·6
5 ...	8·4	7·1	7·8	12·1	**13·5**	15·0	6·5	18·4	13·2	5·4	6·7	7·7
6 ...	6·0	7·6	8·2	11·9	11·4	9·3	8·0	16·4	10·4	4·1	7·3	8·3
7 ...	6·8	10·5	8·8	12·1	9·7	8·6	7·2	20·2	5·8	5·8	10·9	**5·9**
8 ...	5·6	10·1	9·1	**13·5**	8·7	8·7	7·8	19·9	9·0	9·8	7·4	6·5
9 ...	8·8	10·2	12·3	8·3	6·7	8·7	5·9	19·0	7·1	8·9	7·9	7·9
10 ...	10·5	11·2	9·1	11·9	6·9	9·0	7·0	17·7	7·1	8·5	7·6	9·6
11 ..	9·5	13·4	11·4	9·3	7·3	7·4	5·3	18·3	5·8	9·2	9·1	9·2
12 .	8·1	13·3	10·7	6·8	9·7	12·9	**4·9**	19·7	7·1	5·9	8·7	9·6
13 ...	8·6	9·1	9·7	8·8	12·7	21·7	8·1	20·3	**5·1**	6·3	10·6	9·0
14 ...	9·2	9·2	9·8	10·3	9·5	18·9	6·0	20·4	6·3	6·3	7·5	11·1
15 ...	5·5	9·7	10·0	9·6	8·9	18·3	7·7	21·5	8·3	6·1	8·8	**12·4**
16 ...	8·2	13·5	10·4	6·7	8·9	17·0	8·3	**22·6**	8·2	4·8	9·6	11·7
17 ..	6·6	10·0	11·7	6·0	7·7	20·5	8·9	21·7	9·5	5·4	10·3	10·2
18 ...	9·4	10·7	11·6	8·6	7·9	16·7	9·8	15·8	8·3	10·0	7·8	9·9
19 ...	9·5	**14·1**	10·5	8·2	8·6	11·2	12·6	18·1	9·5	7·1	6·0	8·7
20 ...	6·0	13·2	8·7	9·2	8·3	10·3	13·5	20·0	9·9	6·3	5·8	9·2
21 ...	7·6	10·8	6·6	10·3	9·0	13·6	14·3	16·7	7·8	7·2	8·8	7·9
22 ...	8·7	8·9	6·7	13·4	11·1	18·0	16·0	15·0	8·9	9·2	8·2	11·7
23 ...	7·7	7·3	7·5	**5·8**	10·3	17·5	**26·4**	12·5	11·3	**10·2**	**5·7**	10·9
24 ...	**4·3**	9·2	7·4	12·9	7·9	16·8	22·5	10·9	13·1	6·6	6·8	10·0
25 ...	8·5	13·2	7·4	10·8	6·8	14·4	20·0	15·7	11·0	6·0	6·6	9·2
26 ..	8·9	12·1	**6·5**	7·7	7·5	**6·4**	18·6	19·7	10·8	5·7	9·7	7·3
27 ...	5·9	10·5	8·9	7·8	7·0	7·7	18·0	15·9	9·4	6·4	9·9	6·4
28 ...	4·8	11·4	9·8	5·9	7·0	9·6	15·7	9·5	7·5	6·2	5·8	6·7
29 ...	10·7		7·2	6·2	7·1	14·2	18·8	**7·8**	7·8	7·7	6·2	7·6
30 ...	**13·0**		7·3	7·0	**5·9**	13·5	18·1	8·9	8·6	7·9	**11·0**	8·9
31 ...	6·7		8·1		6·4		16·1	11·3		7·6		9·0
Monthly mean ...	8·0	10·3	9·3	9·2	8·8	13·5	11·9	**17·0**	9·2	**6·9**	8·2	9·2
Annual Variation.	−2·1	+0·2	−0·8	−0·9	−1·3	+3·4	+1·8	+6·9	−0·9	−3·2	−1·9	−0·9

TABLE VI*b*.—*Showing the mean diurnal inequality of the velocity of the wind in miles per hour for each month of the year 1907, and for the whole year.*

1907. Bombay Civil Time. Hourly Intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
0 to 1...	− 2·3	− 2·6	− 2·2	− 2·2	− 0·7	− 0·5	− 0·2	+ 1·0	− 1·3	− 1·8	− 3·1	− 3·3	− 1·6
1 „ 2...	**− 2·7**	− 2·4	− 2·0	− 2·3	− 1·9	− 0·2	− 0·6	+ 0·7	− 1·1	− 1·4	− 2·5	− 2·7	− 1·6
2 „ 3...	− 1·7	− 1·6	− 1·8	− 2·7	− 3·1	− 0·6	− 0·1	**+ 1·7**	− 1·9	− 0·7	− 1·5	− 1·8	− 1·3
3 „ 4 .	− 1·4	− 1·8	− 2·1	**− 3·8**	− 3·3	− 0·7	+ 0·1	+ 0·7	− 2·3	− 1·0	− 0·7	− 1·1	− 1·4
4 „ 5...	− 0·3	1·4	− 1·8	− 3·7	− 3·7	− 0·9	− 0·1	+ 1·5	− 2·3	− 1·3	− 0·6	− 0·1	− 1·2
5 „ 6...	− 0·5	− 1·8	− 2·8	− 3·8	− 3·9	− 1·4	− 0·6	+ 0·2	**− 2·5**	− 1·4	− 0·4	+ 0·6	− 1·5
6 „ 7...	− 0·2	− 2·1	− 3·0	− 3·8	**− 4·3**	− 0·2	+ 0·2	− 0·5	− 2·0	− 2·0	− 0·3	+ 1·5	− 1·4
7 „ 8...	+ 0·4	− 2·9	− 3·1	− 2·0	− 3·4	− 0·3	− 0·9	− 0·5	− 0·9	− 1·3	+ 0·8	+ 1·5	− 1·0
8 „ 9...	+ 0·6	− 1·9	− 1·9	− 2·1	− 2·8	− 1·4	− 0·6	− 0·2	− 1·1	− 0·1	+ 0·5	+ 2·0	− 0·7
9 „ 10...	− 0·6	− 2·1	− 2·2	− 2·0	− 2·4	**− 2·1**	− 0·8	− 0·7	− 0·9	− 1·1	− 0·1	+ 1·1	− 1·2
10 „ 11...	− 0·8	**− 3·3**	− 1·5	− 0·7	+ 0·5	− 0·9	+ 0·1	− 0·2	+ 0·2	− 2·0	− 1·2	− 0·8	− 0·9
11 „ 12...	− 2·3	− 2·1	+ 0·2	+ 1·0	+ 1·6	+ 0·1	+ 0·1	+ 0·8	+ 1·0	− 1·2	− 2·3	− 1·7	− 0·4
12 „ 13...	− 1·6	− 0·1	+ 2·6	+ 3·2	+ 3·2	+ 0·7	+ 0·6	+ 0·9	+ 1·9	+ 1·2	− 1·0	− 2·4	+ 0·8
13 „ 14...	+ 0·7	+ 1·4	+ 3·8	+ 4·6	+ 4·7	+ 0·4	+ 0·7	+ 0·4	+ 2·9	+ 2·8	+ 0·8	− 2·0	+ 1·8
14 „ 15...	+ 1·6	+ 3·7	+ 4·8	+ 5·8	**+ 5·2**	+ 1·3	+ 0·6	0·0	**+ 3·9**	**+ 3·7**	+ 2·1	− 0·7	+ 2·7
15 „ 16...	+ 2·7	+ 4·2	+ 5·3	**+ 6·6**	+ 5·1	+ 2·0	+ 1·5	+ 0·4	+ 3·9	+ 3·7	+ 3·0	+ 1·0	+ 3·3
16 „ 17...	+ 2·9	**+ 4·6**	**+ 5·4**	+ 5·8	+ 4·5	**+ 2·3**	**+ 1·6**	− 0·2	+ 3·8	+ 3·5	**+ 3·8**	+ 2·1	**+ 3·3**
17 „ 18...	+ 3·4	+ 4·4	+ 5·1	+ 4·8	+ 3·6	+ 0·9	+ 1·0	− 1·2	+ 2·9	+ 3·0	+ 3·3	+ 3·5	+ 2·9
18 „ 19 ..	**+ 3·4**	+ 4·6	+ 3·7	+ 3·1	+ 2·3	+ 1·4	+ 0·5	− 0·5	+ 1·6	+ 2·2	+ 3·4	**+ 3·8**	+ 2·5
19 „ 20 .	+ 2·8	+ 4·4	+ 1·6	+ 0·9	+ 1·2	+ 1·4	+ 0·1	**− 1·4**	+ 0·1	+ 0·6	+ 2·2	+ 3·6	+ 1·5
20 „ 21...	+ 1·4	+ 3·4	− 0·3	− 1·0	0·0	+ 0·5	− 0·9	− 0·8	− 0·9	− 1·3	0·0	+ 1·1	+ 0·1
21 „ 22...	− 0·8	− 0·3	− 2·2	− 2·1	− 1·3	+ 0·1	**− 1·2**	− 1·0	− 1·3	**− 2·0**	− 1·6	− 0·9	− 1·2
22 „ 23 ..	− 1·6	− 2·2	− 2·6	− 2·1	− 0·6	− 0·8	− 0·6	− 0·5	− 1·4	− 1·3	− 2·5	− 2·2	− 1·5
23 „ 24...	− 2·2	− 2·7	**− 3·3**	− 2·7	− 0·9	− 0·6	− 0·5	+ 0·5	− 1·4	− 1·5	**− 3·2**	**− 3·3**	**− 1·8**
Range ...	6·1	7·9	8·7	10·4	9·5	4·4	2·8	3·1	6·4	5·7	7·0	7·1	5·1

	Miles.
The mean velocity for June to August	14·1
The mean velocity for September to May	8·8
The mean velocity for the year	10·1

Mean Daily Velocities of the North and East Components of the Wind, 1907.

TABLE VIc.—*Showing the Mean Velocities of the North or South and East or West Components of the Winds which blew on each day of the year 1907.*

In miles per hour.

1907.	Month.																											
Date.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October		November.		December.	
	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.
1 ...	3·3 N	0·2 E	6·9 N	0·6 W	11·2 N	4·4 W	3·3 N	0·7 W	3·3 N	8·5 W	0·7 S	6·5 W	4·4 S	11·3 W	6·1 S	17·0 W	0·2 S	13·5 W	2·3 N	0·0	4·7 N	0·1 E	11·1 N	3·2 W
2 ...	7·7 N	0·4 E	4·5 N	1·2 W	8·9 N	4·4 W	1·1 N	3·7 W	5·3 N	8·4 W	4·6 S	3·7 W	2·5 S	7·7 W	7·1 S	17·1 W	0·3 S	12·1 W	0·4 S	1·1 W	6·5 N	1·4 E	8·0 N	1·4 E
3 ...	6·4 N	0·9 W	0·1 N	0·8 E	7·0 N	4·2 W	2·6 N	5·4 W	4·0 N	6·6 W	19·9 S	3·3 E	0·8 N	7·0 W	7·3 S	19·7 W	0·0	10·4 W	2·0 N	2·9 W	1·4 N	1·6 E	6·6 N	3·0 E
4 ...	4·8 N	1·6 E	3·2 S	0·8 E	7·5 N	3·6 W	7·5 N	4·9 W	7·0 N	5·2 W	21·6 S	4·9 E	2·5 S	0·8 W	5·9 S	15·9 W	0·3 S	13·3 W	3·5 N	2·8 W	3·6 N	0·6 W	3·2 N	2·4 E
5 ...	4·8 N	2·3 E	0·0	1·3 E	4·4 N	5·1 W	6·9 N	0·1 W	9·3 N	8·0 W	13·5 S	0·7 W	5·4 S	2·6 W	6·5 S	17·1 W	2·0 S	12·8 W	2·8 N	2·8 W	2·9 N	1·0 E	4·6 N	0·1 E
6 ...	0·0	0·1 W	4·8 N	3·4 W	4·0 N	5·7 W	8·3 N	7·3 W	7·0 N	7·6 W	6·3 S	3·5 W	4·1 S	6·4 W	6·3 S	15·2 W	3·0 S	9·4 W	0·3 S	3·0 W	4·4 N	0·3 W	5·2 N	0·6 E
7 ...	0·7 N	1·5 E	5·0 N	1·4 E	5·5 N	4·5 W	9·1 N	7·1 W	5·4 N	5·7 W	0·5 S	8·5 W	4·1 S	5·8 W	7·0 S	18·8 W	3·0 S	3·4 W	2·3 N	4·3 W	3·5 N	3·2 E	3·2 N	0·7 E
8 ...	1·9 N	2·4 W	8·5 N	2·3 W	5·6 N	4·7 W	9·9 N	8·0 W	1·1 N	6·5 W	1·2 N	8·4 W	3·8 S	6·7 W	6·5 S	18·6 W	1·5 N	3·6 W	7·3 N	5·7 W	2·6 N	0·2 E	3·0 N	0·9 E
9 ...	6·3 N	4·0 W	5·7 N	4·2 W	9·3 N	6·7 W	2·8 N	5·4 W	1·4 S	5·8 W	3·3 N	8·0 W	3·2 S	4·7 W	3·9 S	18·2 W	3·3 S	4·0 W	7·0 N	4·5 W	2·4 N	0·8 E	4·1 N	1·0 E
10 ...	7·0 N	0·2 E	8·2 N	1·7 W	6·5 N	4·6 W	8·6 N	5·8 W	1·4 S	6·5 W	2·8 N	6·8 W	0·1 S	7·0 W	4·8 S	16·7 W	4·0 S	3·9 W	6·5 N	2·9 W	1·4 N	0·4 W	6·3 N	2·2 E
11 ...	7·4 N	2·3 W	11·3 N	3·9 W	6·5 N	8·6 W	5·0 N	0·8 W	2·3 S	5·5 W	1·7 N	1·1 W	0·3 N	4·2 W	3·4 S	17·7 W	3·9 S	2·5 W	6·2 N	5·9 W	2·6 N	0·7 W	6·2 N	1·1 E
12 ...	3·6 N	2·6 E	11·1 N	4·8 W	7·7 N	5·6 W	3·1 N	5·3 W	2·6 N	6·8 W	7·9 S	4·1 E	2·2 S	4·0 W	2·6 S	19·2 W	2·3 S	6·5 W	4·0 N	3·7 W	1·7 N	3·4 E	7·3 N	1·2 W
13 ...	5·3 N	1·7 E	7·5 N	3·9 W	6·2 N	5·2 W	5·0 N	6·5 W	8·2 N	8·3 W	19·9 S	5·2 E	3·8 S	2·9 W	1·4 S	20·0 W	3·0 S	2·3 W	4·1 N	2·8 W	4·4 N	2·2 E	5·3 N	2·8 E
14 ...	4·7 N	0·9 E	7·0 N	3·0 W	7·8 N	5·2 W	5·1 N	6·5 W	4·6 N	7·6 W	17·2 S	5·4 E	0·7 S	0·8 E	2·7 S	19·8 W	0·9 S	4·7 W	2·6 N	1·0 W	3·6 N	1·9 W	6·9 N	3·7 E
15 ...	2·2 N	0·1 E	7·3 N	3·8 W	7·6 N	4·2 W	3·0 N	8·5 W	1·2 S	8·2 W	16·5 S	3·9 E	5·7 S	3·5 W	4·2 S	20·7 W	3·5 N	4·6 W	4·4 S	1·5 W	4·5 N	1·9 W	7·4 N	5·9 E
16 ...	6·9 N	1·6 W	10·9 N	7·3 W	8·2 N	3·0 W	1·8 N	6·2 W	0·8 N	8·0 W	14·6 S	0·5 E	0·5 N	7·0 W	7·9 S	21·0 W	3·3 N	5·5 W	2·0 S	1·4 W	4·9 N	1·5 W	6·5 N	5·8 E
17 ...	5·2 N	1·6 W	7·6 N	5·5 W	8·1 N	6·7 W	3·7 N	4·3 W	0·7 S	7·2 W	17·9 S	1·1 E	1·8 S	7·6 W	7·5 S	20·2 W	3·7 N	8·7 W	1·0 N	3·7 W	6·9 N	2·8 W	5·9 N	3·8 E
18 ...	5·6 N	1·1 E	8·0 N	5·6 W	7·3 N	4·0 W	5·2 N	4·6 W	0·8 N	7·6 W	12·1 S	2·7 W	6·1 S	5·5 W	4·8 S	14·8 W	3·9 N	5·9 W	7·3 N	3·4 W	5·4 N	3·2 W	6·3 N	2·8 E
19 ...	4·6 N	2·1 E	11·9 N	4·6 W	8·9 N	2·5 W	4·6 N	6·3 W	3·1 N	7·6 W	5·5 S	9·5 W	5·1 S	6·7 W	5·8 S	16·9 W	7·0 N	3·8 W	4·5 N	2·6 W	0·4 S	0·8 W	6·6 N	2·3 W
20 ...	4·3 N	0·8 W	11·1 N	3·6 W	6·0 N	5·1 W	6·7 N	5·7 W	3·3 N	7·4 W	4·1 S	9·4 W	4·9 S	12·3 W	4·3 S	18·7 W	6·5 N	4·6 W	4·3 N	0·7 W	3·4 N	0·7 W	6·6 N	3·8 W
21 ...	4·5 N	0·2 E	8·2 N	2·4 W	0·8 S	5·6 W	6·4 N	4·7 W	3·7 N	7·9 W	5·2 S	12·6 W	1·7 S	12·9 W	3·7 S	16·0 W	4·8 N	5·4 W	4·5 N	5·2 W	7·0 N	1·7 W	3·7 N	2·1 E
22 ...	6·9 N	1·5 W	6·9 N	3·6 W	1·9 S	3·9 W	11·0 N	2·1 W	5·4 N	9·4 W	6·4 S	16·7 W	0·5 S	14·4 W	5·4 S	14·0 W	3·7 N	7·7 W	6·8 N	5·2 W	5·4 N	0·8 W	4·1 N	5·2 E
23 ...	5·6 N	3·1 W	4·0 N	4·9 W	1·7 N	7·1 W	5·0 N	1·4 W	2·9 N	9·7 W	6·7 S	16·2 W	0·0	26·4 W	5·0 S	11·3 W	6·2 N	9·1 W	7·5 N	6·4 W	2·8 N	0·2 W	3·1 N	6·2 E
24 ...	2·7 N	1·4 W	6·6 N	6·3 W	2·8 N	3·6 W	10·1 N	7·3 W	0·0	7·9 W	4·3 S	15·9 W	2·0 N	20·7 W	4·6 S	7·8 W	9·3 N	8·7 W	4·2 N	4·3 W	4·3 N	2·4 E	3·6 N	4·1 E
25 ...	6·1 N	0·9 W	11·5 N	4·5 W	3·6 N	6·2 W	8·8 N	2·3 W	0·1 S	6·8 W	0·2 N	14·3 W	0·0	20·0 W	1·2 S	15·2 W	8·2 N	6·9 W	3·5 N	1·0 W	2·7 N	3·3 E	5·3 N	2·7 E
26 ...	7·4 N	3·1 W	9·2 N	6·0 W	3·7 N	5·1 W	4·4 N	3·7 W	1·2 N	7·3 W	2·9 S	3·1 W	1·8 N	18·3 W	0·2 S	19·7 W	4·3 N	3·8 W	0·1 S	0·5 W	4·3 N	2·6 E	3·1 N	1·4 E
27 ...	4·1 N	1·8 W	8·3 N	4·4 W	4·9 N	5·5 W	3·3 N	6·9 W	0·3 N	6·7 W	2·8 S	6·6 W	1·8 S	17·4 W	1·1 S	15·7 W	8·0 N	3·0 W	1·1 N	0·9 W	5·5 N	2·4 E	1·3 N	2·0 E
28 ...	1·2 S	2·0 W	9·8 N	3·3 W	6·2 N	4·0 W	0·1 N	5·8 W	0·2 N	7·0 W	2·9 S	9·0 W	6·4 S	14·3 W	1·9 S	9·1 W	2·8 N	2·8 W	1·1 S	0·9 W	0·3 N	0·5 W	0·9 N	2·6 E
29 ...	7·8 N	5·9 W			4·5 N	3·9 W	0·1 S	4·8 W	0·8 S	6·9 W	0·8 S	14·0 W	6·3 S	17·4 W	3·0 S	7·1 W	2·1 N	3·6 W	0·9 N	2·1 E	2·2 N	2·2 W	1·1 S	1·6 E
30 ...	10·5 N	4·4 W			2·2 S	2·6 W	0·2 S	5·7 W	1·3 S	5·2 W	2·5 S	13·0 W	6·9 S	16·7 W	2·4 S	8·3 W	5·1 N	2·5 W	3·7 N	0·8 E	9·5 N	3·1 W	6·8 N	1·4 W
31 ...	3·4 N	0·8 E			3·0 N	0·6 E			0·4 S	6·1 W			4·9 S	15·1 W	2·7 S	10·7 W			2·1 N	0·2 W			7·3 N	2·0 W
Monthly Mean ...	4·8 N	0·7 W	7·1 N	3·2 W	5·5 N	4·7 W	5·1 N	5·4 W	2·3 N	7·2 W	6·9 S	5·4 W	2·7 S	9·9 W	4·4 S	16·1 W	1·9 N	6·3 W	3·0 N	2·6 W	3·8 N	0·0	5·1 N	1·7 E
Annual Variation ...	2·8 N	4·3 E	5·1 N	1·8 E	3·5 N	0·3 E	3·1 N	0·4 W	0·3 N	2·2 W	8·9 S	0·4 W	4·7 S	4·9 W	6·4 S	11·1 W	0·1 S	1·3 W	1·0 N	2·4 E	1·8 N	5·0 E	3·1 N	6·7 E

The Velocities of the Mean Components for the year are 2·0 N. and 5·0 W.

TABLE VId.—*Showing the Mean Diurnal Inequality of the Velocity of the North or South and East or West Components of the Wind for each month of the year 1907 and for the whole year.*

In miles per hour.

1907.	Month.																								Year.	
	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.			
Bombay Civil time Hourly Intervals.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.
0 to 1	1·0 S	0·7 E	0·9 S	1·9 E	0·2 S	1·1 E	0·7 S	2·6 E	1·5 N	1·2 E	0·1 N	1·8 E	1·1 S	2·6 E	0·3 S	0·9 W	0·1 S	0·3 E	0·3 S	1·5 E	0·0	1·8 E	1·5 S	1·1 E	0·4 S	1·3 E
1 to 2	1·3 S	1·3 E	0·6 S	2·3 E	0·2 N	1·1 E	0·5 S	1·7 E	0·7 N	2·1 E	0·6 S	1·5 E	0·3 S	1·4 E	0·0	0·6 W	0·4 S	0·3 E	0·0	2·0 E	1·2 S	4·0 E	1·3 S	2·2 E	0·4 S	1·6 E
2 to 3	1·1 S	2·4 E	0·0	2·3 E	0·5 N	1·9 E	0·8 S	2·3 E	0·3 S	3·4 E	0·1 N	1·8 E	0·4 S	0·5 E	0·7 S	1·5 W	0·8 S	0·9 E	0·1 S	2·1 E	0·5 S	4·8 E	1·1 S	3·2 E	0·4 S	2·0 E
3 to 4	0·9 S	3·8 E	0·2 S	2·3 E	0·5 N	2·2 E	1·1 S	3·0 E	0·1 S	4·0 E	0·7 N	2·4 E	0·5 S	0·6 E	0·7 S	0·6 W	1·2 S	2·1 E	0·1 S	2·4 E	0·7 S	5·9 E	1·1 S	4·2 E	0·4 S	2·7 E
4 to 5	0·8 S	5·0 E	0·8 S	3·4 E	0·5 N	3·5 E	1·2 S	4·3 E	0·1 S	4·5 E	1·3 N	2·5 E	0·0	1·0 E	0·4 S	1·5 W	1·4 S	2·7 E	0·4 S	3·1 E	1·3 S	6·2 E	0·9 S	5·5 E	0·5 S	3·3 E
5 to 6	1·3 S	5·9 E	1·3 S	4·3 E	0·7 S	5·3 E	0·9 S	4·6 E	0·4 S	4·8 E	1·6 N	3·1 E	0·1 N	1·9 E	0·2 S	0·2 W	1·5 S	3·7 E	0·8 S	3·9 E	1·3 S	6·2 E	0·6 S	6·2 E	0·6 S	4·1 E
6 to 7	1·4 S	6·2 E	1·8 S	5·8 E	1·1 S	6·2 E	0·9 S	4·9 E	0·4 S	5·3 E	0·2 N	3·8 E	0·2 S	1·4 E	0·4 S	0·5 E	2·0 S	4·7 E	1·0 S	4·8 E	1·3 S	6·1 E	1·1 S	7·3 E	0·9 S	4·7 E
7 to 8	1·4 S	7·3 E	2·5 S	6·4 E	1·7 S	7·0 E	0·4 N	4·7 E	0·3 S	5·1 E	0·7 N	2·7 E	0·3 N	1·0 E	0·2 N	0·5 E	1·9 S	5·1 E	0·8 S	5·2 E	2·1 S	7·3 E	1·9 S	7·8 E	0·9 S	5·0 E
8 to 9	1·7 S	7·6 E	2·5 S	8·5 E	2·0 S	7·6 E	0·3 S	6·5 E	0·8 S	4·2 E	0·5 N	2·5 E	0·5 S	1·8 E	0·7 N	0·0	1·9 S	4·4 E	0·6 S	5·4 E	2·6 S	7·0 E	1·9 S	8·4 E	1·1 S	5·3 E
9 to 10	2·0 S	6·5 E	2·5 S	7·7 E	2·2 S	6·5 E	0·5 S	5·2 E	0·8 S	2·4 E	0·6 N	1·3 E	0·4 N	1·0 E	1·0 N	0·6 E	1·9 S	3·2 E	0·7 S	4·7 E	2·9 S	6·6 E	2·3 S	7·7 E	1·1 S	4·4 E
10 to 11	1·6 S	4·8 E	3·3 S	6·2 E	1·1 S	2·8 E	1·0 S	1·6 E	0·9 S	1·2 W	0·1 S	0·9 W	0·1 S	0·0	0·2 N	0·1 E	1·9 S	0·2 W	1·5 S	2·4 E	3·1 S	4·5 E	2·7 S	5·3 E	1·4 S	2·1 E
11 to 12	1·9 S	1·4 E	1·8 S	1·0 E	0·5 S	2·2 W	1·0 S	2·2 W	0·9 S	2·6 W	0·2 S	2·6 W	0·5 S	0·6 W	0·3 S	0·8 W	0·1 S	2·0 W	1·8 S	0·5 W	3·3 S	0·9 E	2·9 S	3·1 E	1·3 S	0·6 W
12 to 13	1·3 S	2·2 W	0·7 S	2·9 W	0·4 N	5·0 W	0·0	4·8 W	0·6 S	3·9 W	0·2 S	3·4 W	0·8 S	1·1 W	0·1 S	0·9 W	0·5 N	2·9 W	1·8 S	4·1 W	2·5 S	2·7 W	2·6 S	0·3 W	0·8 S	2·8 W
13 to 14	0·1 S	5·0 W	0·2 S	5·4 W	0·1 S	6·7 W	0·3 N	6·4 W	0·4 N	5·4 W	0·3 N	2·8 W	0·0	1·4 W	0·5 N	0·5 W	0·8 N	4·0 W	0·4 S	6·3 W	1·5 S	5·7 W	2·7 S	3·6 W	0·2 S	4·4 W
14 to 15	0·1 S	6·9 W	0·9 N	7·7 W	1·2 N	7·2 W	1·2 N	7·6 W	0·2 S	6·0 W	0·1 S	3·2 W	0·6 N	1·6 W	0·9 N	0·2 W	2·2 N	4·7 W	0·7 N	6·6 W	1·0 N	7·7 W	1·5 S	7·3 W	0·6 N	5·6 W
15 to 16	0·5 N	7·9 W	2·0 N	7·4 W	1·4 N	7·5 W	2·5 N	7·6 W	0·5 S	5·9 W	0·3 S	3·8 W	0·0	2·3 W	0·4 N	0·5 W	2·5 N	4·7 W	1·6 N	6·3 W	2·9 N	8·3 W	0·1 N	9·5 W	1·1 N	6·0 W
16 to 17	1·6 N	7·5 W	2·8 N	7·3 W	1·9 N	7·3 W	1·9 N	7·1 W	0·2 N	5·2 W	0·1 S	3·7 W	0·5 N	2·9 W	0·3 N	0·2 E	2·6 N	4·4 W	1·6 N	5·2 W	4·3 N	7·7 W	1·8 N	9·9 W	1·6 N	5·7 W
17 to 18	3·1 N	7·0 W	2·7 N	7·0 W	2·9 N	6·4 W	2·0 N	5·8 W	0·4 N	4·2 W	0·4 S	2·4 W	1·1 N	2·3 W	0·2 S	1·2 E	2·8 N	3·5 W	2·2 N	4·6 W	3·5 N	8·2 W	4·9 N	8·6 W	2·1 N	4·9 W
18 to 19	4·1 N	5·7 W	3·0 N	6·9 W	2·3 N	4·4 W	1·9 N	3·6 W	0·5 N	2·9 W	1·4 S	2·0 W	1·0 N	1·7 W	0·8 S	0·7 E	2·0 N	2·0 W	2·2 N	3·7 W	3·7 N	8·0 W	6·1 N	7·7 W	2·0 N	4·0 W
19 to 20	4·1 N	4·8 W	3·9 N	5·6 W	1·2 N	2·7 W	0·8 N	1·9 W	0·1 N	1·7 W	2·3 S	1·1 W	0·1 N	1·3 W	0·1 N	1·3 E	1·2 N	1·0 W	2·1 N	2·1 W	3·8 N	6·1 W	6·3 N	6·9 W	1·8 N	2·8 W
20 to 21	3·3 N	3·1 W	3·7 N	4·1 W	0·4 N	0·7 W	0·4 S	0·3 W	0·2 N	0·4 W	1·4 S	0·5 W	0·3 N	0·2 W	0·1 S	0·9 E	1·3 N	0·2 W	0·8 N	0·3 W	2·4 N	3·9 W	4·3 N	4·9 W	1·2 N	1·5 W
21 to 22	1·4 N	1·6 W	1·3 N	0·6 W	1·5 S	1·6 E	0·8 S	1·0 E	0·1 N	0·9 E	0·8 S	0·5 E	0·0	0·4 E	0·1 S	1·0 E	0·6 S	0·6 E	0·4 N	0·5 E	1·6 N	2·3 W	2·4 N	2·4 W	0·3 N	0·0
22 to 23	0·7 N	1·0 W	0·3 S	0·6 E	1·5 S	2·1 E	0·4 S	1·8 E	0·5 N	0·3 E	0·5 N	0·4 E	0·4 N	0·4 E	0·2 S	0·6 E	0·4 S	0·8 E	0·3 S	0·6 E	0·8 N	0·6 W	1·1 N	1·4 W	0·1 N	0·4 E
23 to 24	0·1 S	0·7 W	0·8 S	1·1 E	1·4 S	2·0 E	1·3 S	2·4 E	0·6 N	0·6 E	1·0 N	1·7 E	0·7 S	1·6 E	0·2 S	0·5 W	0·4 S	0·7 E	0·5 S	1·2 E	0·6 N	0·8 E	0·5 S	0·3 E	0·3 S	0·9 E

Aggregate and Mean Velocities and relative Frequency of different Winds, 1907.

TABLE VIe.—*Showing for the year 1907 the sums of the Velocities, and the Mean Velocities, in miles per hour, of the Winds which blew in each month, from each of the sixteen Principal Directions and also the number of hourly Observations which those sums comprise; the latter numbers indicating the Relative Frequency of the same Wind (as to direction) in the several months, and of different Winds during the same month.*

1907.	N.			N. N. E.			N. E.			E. N. E.			E.			E. S. E.			S. E.			S. S. E.		
Month.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity
	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Mil s.		Miles.
January ...	529	86	6·2	310	56	5·5	348	53	6·6	913	115	7·9	407	57	7·1	76	13	5·8	6	1	6·0	0	0	0·0
February ...	732	88	8·3	385	56	6·9	259	39	6·6	224	30	7·5	250	30	8·3	98	12	8·2	50	6	8·3	0	0	0·0
March ...	525	74	7·1	214	34	6·3	291	46	6·3	155	20	7·7	45	8	5·6	46	5	9·2	15	1	15·0	64	8	8·0
April ...	494	80	6·2	97	16	6·1	217	31	7·0	76	10	7·6	47	9	5·2	62	9	6·9	20	5	4·0	0	0	0·0
May ...	178	33	5·4	26	5	5·2	44	10	4·4	5	3	1·7	4	1	4·0	26	5	5·2	24	4	6·0	12	3	4·0
June ...	16	4	4·0	5	1	5·0	48	5	9·6	35	6	5·8	97	10	9·7	96	7	13·7	560	34	16·5	1,239	61	20·3
July ...	91	10	9·1	13	2	6·5	39	6	6·5	52	7	7·4	32	3	10·7	12	2	6·0	54	5	10·8	132	14	9·4
August ...	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0
September ...	68	16	4·2	39	8	4·9	119	19	6·3	47	9	5·2	32	6	5·3	97	12	8·1	119	18	6·6	168	20	8·4
October ...	250	43	5·8	67	14	4·8	182	34	5·4	184	37	5·0	300	46	6·5	70	11	6·4	133	22	6·0	81	17	4·8
November ...	304	58	6·3	237	40	5·9	669	105	6·4	644	76	8·5	610	77	7·9	313	35	8·9	85	14	6·1	30	4	7·5
December ...	589	84	7·0	290	50	5·8	552	75	7·4	1,788	189	9·5	536	60	8·9	259	28	9·2	0	0	0·0	11	3	3·7
Year ...	3,836	576	6·7	1,683	282	6·0	2,768	423	6·5	4,123	502	8·2	2,360	307	7·7	1,155	139	8·3	1,066	110	9·7	1,737	130	13·4

1907.	S.			S. S. W.			S. W.			W. S. W.			W.			W. N. W.			N. W.			N. N. W.			Number of Observations.	
Month.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Calm.	Variable.
	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.		
January ...	8	1	8·0	8	2	4·0	20	5	4·0	57	10	5·7	158	23	6·9	591	81	7·3	1,371	132	10·4	1,186	109	10·9	0	0
February ...	14	2	7·0	5	1	5·0	0	0	0·0	31	5	6·2	221	30	7·4	315	31	10·2	2,757	218	12·6	1,577	124	12·7	0	0
March ...	34	5	6·8	24	4	6·0	33	9	3·7	57	8	7·1	265	34	7·8	1,786	166	10·8	2,294	207	11·1	1,054	113	9·3	2	0
April ...	0	0	0·0	5	1	5·0	5	2	2·5	109	14	7·8	718	101	7·1	1,723	160	10·8	2,202	193	11·4	821	89	9·2	0	0
May ...	4	1	4·0	24	5	4·8	48	11	4·4	670	94	7·1	1,943	223	8·7	2,324	236	9·8	963	84	11·5	243	25	9·7	1	0
June ...	1,908	92	20·7	442	40	11·0	466	51	9·1	2,658	216	12·3	1,611	133	12·1	483	49	9·9	47	6	7·8	0	2	0·0	1	2
July ...	209	22	9·5	217	35	6·2	710	103	6·9	3,348	269	12·4	3,527	221	16·0	322	31	10·4	88	12	7·3	8	1	8·0	1	0
August ...	0	0	0·0	0	0	0·0	124	16	7·7	8,386	506	16·6	4,158	220	18·9	8	1	8·0	8	1	8·0	0	0	0·0	0	0
September ...	31	6	5·2	35	8	4·4	246	43	5·7	770	93	8·3	1,586	142	11·2	1,337	127	10·5	1,511	140	10·8	442	51	8·7	2	0
October ...	87	16	5·4	25	9	2·8	17	3	5·7	165	28	5·9	330	53	6·2	986	117	8·4	1,464	181	8·1	707	111	6·9	2	0
November ...	26	3	8·7	6	1	6·0	24	5	4·8	29	3	9·7	296	39	7·6	635	74	8·6	1,336	123	10·9	571	62	9·2	1	0
December ...	0	0	0·0	9	0	0·0	0	0	0·0	48	10	4·8	134	18	7·4	431	50	8·6	805	74	10·9	1,371	103	13·3	0	0
Year ..	2,321	148	15·7	791	106	7·5	1,693	248	6·8	16,328	1,256	13·0	14,947	1,237	12·1	10,944	1,123	9·7	14,846	1,371	10·8	8,046	790	10·2	10	2

Velocity of Wind, 1907.

DINES' ANEMOGRAPH.

TABLE VI*f*.—*Mean Velocity of the Wind, in miles per hour, for each day of Bombay Civil Time; also the mean monthly Velocity and its variation from the mean of the year.*

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
1 ...	5·5	6·0	8·8	4·8	6·5	4·7	7·9	12·1	9·2	5·2	5·7	8·5
2 ...	7·0	5·5	7·5	4·4	7·4	5·8	5·8	12·2	8·1	4·0	6·3	7·0
3 ...	6·1	4·9	7·0	6·7	6·3	16·1	6·2	14·1	7·3	2·7	5·4	7·1
4 ...	5·9	6·1	7·0	7·8	7·7	18·0	3·7	11·2	9·3	3·8	6·0	5·9
5 ...	5·8	5·0	5·5	8·5	9·5	10·7	4·1	12·2	8·8	3·9	4·6	5·3
6 ...	4·2	5·1	5·7	8·2	8·0	6·4	4·8	10·9	6·9	3·6	5·1	5·7
7 ...	4·8	7·3	6·0	8·7	6·8	5·5	4·5	13·4	4·2	4·6	7·5	4·2
8 ...	4·1	7·0	6·5	9·2	5·9	5·6	4·9	13·3	6·6	7·1	5·1	4·5
9 ...	6·4	7·1	8·4	5·7	4·8	5·8	3·6	12·6	4·9	6·5	5·4	5·5
10 ...	7·1	7·6	6·5	8·4	5·0	6·4	4·5	12·0	5·1	6·2	5·2	6·4
11 ...	6·4	9·2	7·9	6·6	5·3	4·9	3·6	12·2	4·3	6·5	6·2	6·2
12 ...	5·5	9·2	7·6	5·0	7·0	9·8	3·4	13·2	4·7	4·5	6·0	6·7
13 ...	6·1	6·4	6·8	6·2	8·8	16·7	5·8	13·8	3·9	4·2	7·2	5·9
14 ...	6·6	6·3	6·9	7·2	6·7	14·2	4·2	13·5	4·6	4·5	5·2	7·6
15 ...	4·1	6·8	6·6	6·1	13·7	5·4	14·4	6·0	4·9	6·0	8·4	
16 ...	5·5	9·1	7·1	4·9	6·2	12·3	5·4	15·0	6·2	3·5	6·7	7·9
17 ...	4·9	6·7	8·1	4·8	5·4	14·3	6·0	14·2	7·1	3·9	7·0	6·9
18 ...	6·4	7·4	7·7	6·2	5·6	11·5	6·5	10·4	6·0	6·9	5·4	6·6
19 ...	6·5	9·5	7·0	5·9	6·1	7·5	8·7	11·9	6·9	5·0	4·2	5·8
20 ...	4·2	8·9	5·9	6·8	5·9	6·9	8·8	13·0	7·2	4·5	4·0	6·3
21 ...	5·3	7·2	5·0	7·3	6·5	9·0	9·5	11·1	5·7	5·0	6·0	5·2
22 ...	6·0	6·0	5·4	9·1	7·9	11·8	10·5	9·8	6·3	6·2	5·7	7·9
23 ...	5·5	5·1	5·2	4·1	7·1	11·0	17·4	8·4	8·2	7·1	4·0	7·6
24 ...	3·2	6·6	5·4	8·9	5·5	10·7	15·0	7·1	9·3	4·7	4·7	7·0
25 ...	5·9	9·0	5·2	7·3	4·9	9·5	13·1	10·3	7·8	4·3	4·6	6·1
26 ...	6·4	8·1	4·8	5·3	5·2	4·4	12·5	13·2	7·7	4·1	6·6	4·9
27 ...	4·5	7·1	6·2	5·7	5·1	5·0	11·9	10·7	6·8	4·9	6·8	4·1
28 ...	3·7	7·7	7·0	4·3	5·0	5·9	10·5	6·4	5·5	4·6	4·0	4·8
29 ...	7·5		5·2	4·5	5·1	9·1	12·7	5·0	5·5	5·5	4·1	5·3
30 ...	8·9		5·2	5·2	4·3	8·5	12·2	6·0	6·2	5·7	7·7	6·2
31 ...	4·5		5·8		4·3		10·7	7·6		5·2		6·1
Monthly Mean ...	5·6	7·1	6·5	6·5	6·2	9·4	7·9	11·3	6·5	4·9	5·6	6·3
Annual Variation	−1·4	+0·1	−0·5	−0·5	−0·8	+2·4	+0·9	+4·3	−0·5	−2·1	−1·4	−0·7

	Miles
The mean velocity for June to August	9·5
The mean velocity for September to May	6·1
The mean velocity for the year	7·0

TABLE VI*g*.—*Showing the mean diurnal inequality of the Velocity of the Wind in miles per hour for each month of the year 1907, and for the whole year.*

1907. Bombay Civil Time Hourly Intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
0 to 1 ...	−1·6	−1·9	−1·6	−1·4	−0·5	−0·4	−0·1	+0·6	−0·9	−1·1	−2·1	−2·2	−1·1
1 „ 2 ...	−1·6	−1·7	−1·2	−1·4	−1·2	−0·3	−0·4	+0·6	−0·8	−0·7	−1·6	−1·9	−1·0
2 „ 3 ...	−1·2	−1·2	−1·4	−1·8	−1·9	−0·4	0·0	+1·1	−1·4	−0·3	−1·0	−1·4	−0·9
3 „ 4 ...	−0·8	−1·1	−1·4	−2·5	−2·0	0·0	0·0	+0·6	−1·5	−0·6	−0·4	−1·0	−0·9
4 „ 5 ...	0·4	−1·1	−1·3	−2·5	−2·3	−0·7	+0·1	+1·0	−1·6	−0·8	−0·3	−0·2	−0·8
5 „ 6 ...	−0·4	−1·1	−2·0	−2·6	−2·3	−0·7	−0·6	+0·1	−1·7	−0·7	−0·2	+0·4	−1·0
6 „ 7 ...	−0·1	−1·4	−1·9	−2·4	−2·5	−0·1	+0·1	−0·2	−1·4	−1·1	−0·1	+0·9	−0·8
7 „ 8 ...	+0·1	−2·1	−2·1	−1·4	−2·0	−0·2	−0·5	−0·4	−0·5	−0·6	+0·6	+1·1	−0·7
8 „ 9 ...	+0·1	−1·5	−1·5	−1·4	−1·8	−1·3	−0·6	−0·2	−0·6	−0·1	+0·4	+1·2	−0·6
9 „ 10 ...	−0·5	−1·6	−1·4	−1·3	−1·4	−1·5	−0·4	−0·4	−0·5	−0·6	0·0	+1·0	−0·7
10 „ 11 ...	−0·9	−2·4	−1·2	−0·8	−0·3	−0·8	+0·2	−0·2	−0·3	−1·6	−0·8	−0·3	−0·8
11 „ 12 ...	−1·4	−1·4	0·0	+0·4	+0·9	0·0	0·0	+0·4	+0·6	−0·9	−1·4	−1·2	−0·3
12 „ 13 ...	−0·9	0·0	+1·7	+2·1	+2·1	+0·3	+0·3	+0·6	+1·2	+0·6	−0·6	−1·5	+0·5
13 „ 14 ...	+0·4	+1·0	+2·7	+3·2	+3·0	+0·2	+0·3	+0·1	+2·2	+1·9	+0·6	−1·3	+1·2
14 „ 15 ...	+1·1	+2·5	+3·3	+4·1	+3·5	+0·8	+0·3	+0·1	+2·5	2·5	+1·5	−0·4	+1·8
15 „ 16 ...	+1·8	+3·1	+3·6	+4·4	+3·3	+1·2	+0·6	+0·2	+2·7	+2·5	+2·1	+0·6	+2·2
16 „ 17 ...	+2·1	+3·2	+3·7	+4·1	+3·0	+1·5	+0·8	−0·1	+2·6	+2·5	+2·6	+1·3	+2·3
17 „ 18 ...	+2·3	+3·1	+3·4	+3·3	+2·3	+0·7	+0·6	−0·7	+2·2	+2·0	+2·3	+2·2	+2·0
18 „ 19 ...	+2·2	+3·1	+2·5	+1·9	+1·3	+1·2	+0·2	−0·3	+1·2	+1·5	+2·3	+2·8	+1·7
19 „ 20 ...	+2·1	+3·1	+1·3	+0·6	+0·6	+1·0	0·0	−0·9	+0·1	+0·5	+1·5	+2·5	+1·0
20 „ 21 ...	+1·0	+2·4	−0·3	−0·7	−0·2	+0·4	−0·5	−0·5	−0·4	−0·8	+0·1	+0·8	+0·1
21 „ 22 ...	−0·4	−0·3	−1·5	−1·3	−0·8	−0·1	−0·6	−0·6	−0·8	−1·2	−1·0	−0·7	−0·8
22 „ 23 ...	−1·0	−1·7	−1·8	−1·3	−0·5	−0·7	−0·3	−0·4	−1·1	−0·7	−1·7	−1·4	−1·0
23 „ 24 ...	−1·4	−1·9	−2·2	−1·8	−0·5	−0·2	−0·3	+0·3	−0·9	−0·9	−2·1	−2·3	−1·2
Range ...	3·9	5·6	5·9	7·0	6·0	3·0	1·4	2·0	4·4	4·1	4·7	5·1	3·5

Temperature of the Ground, 1907.

TABLE VII*a*.—*Showing for each month the Mean Temperature of the Ground in the Thermometer Shed and its Annual Variation at the respective depths of 1, 9, 20, 60 and 132 inches below the surface.*

Month.	1 Inch.		9 Inches.		20 Inches.		60 Inches.		132 Inches.	
	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.
	°	°	°	°	°	°	°	°	°	°
January ...	78·3	−3·9	80·1	−3·6	83·9	−2·6	85·5	−1·1	85·0	−0·4
February ...	77·6	−4·6	79·3	−4·4	83·2	−3·3	84·8	−1·8	84·7	−0·7
March ...	81·3	−0·9	82·1	−1·6	84·6	−1·9	84·9	−1·7	84·6	−0·8
April ...	84·9	+2·7	85·3	+1·6	87·2	+0·7	86·1	−0·5	84·7	−0·7
May ...	86·7	+4·5	87·0	+3·3	89·1	+2·6	87·3	+0·7	85·2	−0·2
June ...	85·7	+3·5	87·3	+3·6	89·8	+3·3	88·6	+2·0	85·9	+0·5
July ...	83·0	+0·8	85·7	+2·0	88·3	+1·8	88·2	+1·6	86·1	+0·7
August ...	81·5	−0·7	84·5	+0·8	87·4	+0·9	87·4	+0·8	86·0	+0·6
September ...	82·8	+0·6	84·6	+0·9	87·1	+0·6	86·8	+0·2	85·9	+0·5
October ...	83·9	+1·7	85·0	+1·3	87·1	+0·6	86·6	0·0	85·6	+0·2
November ...	82·7	+0·5	83·6	−0·1	86·4	−0·1	86·6	0·0	85·6	+0·2
December ...	78·3	−3·9	80·2	−3·5	84·0	−2·5	86·0	−0·6	85·3	−0·1
Year ...	82·2		83·7		86·5		86·6		85·4	

TABLE VII*b*.—*Showing for each of the five observation hours and the Mean of the day, the Temperature of the Ground, exposed to the direct rays of the Sun at the depths of 1 inch and 8 inches below the surface.*

Depth from Surface.	1 Inch.						8 Inches.					
Month.	Observation Hours.					Mean of five observation hours.	Observation Hours.					Mean of five observation hours.
	6	10	14	16	22		6	10	14	16	22	
	°	°	°	°	°	°	°	°	°	°	°	°
January ...	73·3	86·5	106·8	101·5	80·6	89·7	80·3	79·6	80·2	80·8	81·5	80·5
February ...	73·1	87·9	105·6	103·0	81·2	90·2	81·4	80·6	81·3	82·3	83·3	81·8
March ...	79·3	97·2	114·7	112·8	87·3	98·2	87·8	86·7	87·9	89·6	90·4	88·5
April ...	84·7	101·7	116·1	113·3	91·9	101·5	93·5	92·5	93·9	95·6	96·4	94·4
May ...	88·1	108·8	123·1	121·2	95·8	107·4	98·3	97·2	99·2	101·0	101·6	99·4
June ...	83·7	94·1	103·7	101·4	87·5	94·1	91·2	90·5	91·9	92·9	93·2	92·0
July ...	80·1	85·2	89·6	89·3	82·2	85·3	83·1	82·9	83·8	84·6	84·5	83·8
August ...	78·1	83·3	88·8	87·3	80·2	83·5	81·5	81·2	82·0	82·7	82·4	82·0
September ...	81·2	90·0	100·0	98·0	85·1	90·9	85·2	84·9	86·3	87·3	87·2	86·2
October ...	83·4	94·7	109·5	106·2	90·5	96·9	87·8	87·2	88·6	89·7	90·0	88·7
November ...	80·4	93·1	110·8	105·2	88·0	95·5	85·3	84·8	85·6	86·4	87·0	85·8
December ...	73·6	85·9	107·2	100·4	81·2	89·7	80·3	79·7	80·5	81·2	81·5	80·7
Year ...	79·9	92·4	106·3	103·3	86·0	93·6	86·3	85·6	86·8	87·8	88·2	87·0

Maxima and Minima of different Meteorological Elements, 1907.

TABLE VIII.—*Showing the individual observations in each month of the year indicating the greatest and the least values of the following elements, viz., Height of Barometer (corrected for temperature); Temperature of Air; Pressure of Vapour; Additional Capacity of Air; and Ground Temperatures, 1 inch and 8 inches below the surface (exposed to solar rays).*

1907.	Height of Barometer.			Temperature of Air.			Pressure of Vapour.			Additional Capacity.			Ground Thermometer 1 inch deep.			Ground Thermometer 8 inches deep.		
Month.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.
	In.	In.	In.	°	°	°	In.	In.	In.	In.	In.	In.	°	°	°	°	°	°
January ...	30·052	29·784	0·268	86·6	66·4	20·2	0·889	0·390	0·499	0·719	0·057	0·662	111·2	68·6	42·6	84·8	78·1	6·7
February ...	·057	·776	·281	84·7	63·5	21·2	·799	·299	·500	·548	·055	·493	112·8	66·8	46·0	87·2	77·6	9·6
March ...	29·992	·738	·254	88·7	71·3	17·4	·913	·414	·499	·613	·060	·553	119·3	70·8	48·5	94·7	83·3	11·4
April ...	·950	·669	·281	89·7	76·8	12·9	·947	·567	·380	·812	·115	·697	121·8	79·7	42·1	98·6	91·1	7·5
May ...	·937	·668	·269	90·8	77·6	13·2	·979	·632	·347	·641	·135	·506	128·3	84·6	43·7	104·9	94·3	10·6
June ...	·839	·467	·372	91·8	76·0	15·8	1·055	·799	·256	·569	·033	·536	126·8	75·8	51·0	104·7	79·7	25·0
July ...	·823	·487	·336	87·9	75·2	12·7	·016	·785	·231	·379	·025	·354	104·7	75·8	28·9	91·8	78·1	13·7
August ...	·858	·585	·273	85·0	74·7	10·3	0·982	·753	·229	·313	·032	·281	98·5	73·0	25·5	85·8	78·7	7·1
September ...	·940	·733	·207	85·5	74·2	11·3	1·004	·737	·267	·362	·053	·309	110·8	77·2	33·6	91·4	80·3	11·1
October ...	·950	·700	·250	91·6	74·5	17·1	·059	·508	·551	·929	·038	·891	112·6	79·4	33·2	91·3	84·4	6·9
November ...	·987	·755	·232	92·7	73·4	19·3	0·968	·411	·557	1·016	·104	·912	113·6	76·5	37·1	88·6	82·5	6·1
December ...	30·053	·831	·222	87·2	67·3	19·9	·830	·363	·467	0·894	·075	·819	109·9	71·3	38·6	84·8	78·4	6·4
Year ...	30·057	29·467	0·590	92·7	63·5	29·2	1·059	0·299	0·760	1·016	0·025	0·991	128·3	66·8	61·5	104·9	77·6	27·3

Extent of Cloudy Sky, 1907.

TABLE IX.—*Means of estimations made at 6, 10, 14, 16 and 22 hours daily, the whole sky being reckoned as 10·0.*

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	2·4	...	...	5·8	1·6	2·4	8·2	9·4	7·0	7·0	4·0	0·2
2 ...	1·4	...	...	0·4	0·2	4·0	7·8	**10·0**	6·2	**7·8**	0·4	...
3 ...	...	0·8	...	1·0	0·2	4·4	**10·0**	10·0	5·2	5·0	3·6	...
4 ...	...	0·6	...	0·4	1·0	7·0	9·0	8·4	5·0	4·0	0·2	...
5 ...	...	1·8	...	...	1·2	3·6	7·0	9·8	4·2	3·0	6·0	...
6 ...	3·2	**3·0**	0·4	3·0	...	4·2	6·0	9·8	3·8	0·4	3·2	...
7 ...	2·6	...	...	6·2	0·4	5·0	5·6	9·8	5·4	4·4	3·4	...
8 ...	0·4	...	...	3·4	...	**0·4**	3·8	10·0	8·6	0·8	2·2	...
9 ...	1·2	1·8	...	2·8	0·2	2·2	4·4	10·0	5·4	...	3·4	...
10 ...	...	0·6	1·4	2·4	1·0	5·8	**2·8**	9·4	3·6	0·2	2·4	...
11 ...	0·2	0·4	0·4	1·0	0·6	7·6	7·4	10·0	4·0	0·4	0·4	...
12 ...	0·2	...	2·0	1·0	1·6	2·6	9·2	10·0	3·8	4·0	0·6	...
13 ...	0·4	...	...	0·6	1·8	4·2	9·0	10·0	7·0	3·8	1·4	...
14 ...	0·2	...	...	1·0	1·4	5·6	8·0	10·0	4·4	4·8	6·8	...
15 ...	0·4	...	4·6	1·2	0·6	6·6	9·6	10·0	5·0	2·0	1·0	...
16 ...	...	0·2	...	2·8	0·6	9·8	10·0	10·0	8·0	3·0	...	3·2
17 ...	...	0·2	1·0	7·8	0·8	**10·0**	10·0	9·8	4·8	1·6	...	3·4
18 ...	...	1·2	1·0	8·8	1·8	10·0	9·4	10·0	5·2	3·2	3·0	...
19 ...	...	...	...	8·0	3·8	9·6	10·0	10·0	**3·4**	2·0	**8·4**	**4·6**
20 ...	...	...	...	8·2	2·2	7·6	9·4	10·0	3·8	2·6	5·2	0·8
21 ...	...	...	0·2	8·4	**4·2**	7·0	10·0	9·6	5·4	1·0	0·6	...
22 ...	...	...	3·2	8·6	3·6	8·6	10·0	9·0	**9·2**	2·2	0·6	...
23 ...	...	...	0·4	9·2	2·8	6·4	10·0	9·8	7·0	1·0	4·0	0·4
24 ...	0·6	...	...	8·0	2·0	9·6	10·0	8·8	7·2	2·2	3·4	...
25 ...	...	...	...	**9·8**	3·0	7·4	10·0	9·4	6·6	2·4	0·6	...
26 ...	...	...	...	8·4	1·8	9·8	10·0	9·0	8·8	0·4	0·6	...
27 ...	..	...	...	2·0	2·4	9·8	10·0	8·4	6·8	1·8	5·8	...
28 ...	...	...	...	1·6	2·2	9·8	9·4	7·6	4·4	0·4	3·0	...
29 ...	...		...	2·8	2·2	9·6	10·0	**5·6**	6·4	...	4·6	...
30 ...	1·8		1·8	2·8	2·6	10·0	9·8	7·2	7·2	...	1·2	...
31 ...	**4·2**		**8·0**		2·2		8·6	5·6		...		...
Monthly mean.	0·6	**0·4**	0·8	4·2	1·6	6·7	8·5	**9·2**	5·8	2·3	2·7	0·4
Annual Variation ...	−3·0	−3·2	−2·8	+0·6	−2·0	+3·1	+4·9	+5·6	+2·2	−1·3	−0·9	−3·2

For the days which have no entry 0·0 is to be understood.

Mean of the months from January to April November and December ... ... 1·5

Mean of the months from May to October ... ... 5·7

Mean for the year ... ... 3·6

Meteorological Data, 1907.

TABLE X.—*Five-day Means of different meteorological elements.*

Number of Five-day period.	Barometric Pressure.	Temperature of the Air.	Pressure of Vapour.	Additional Capacity of the Air.	Rainfall.	North or South Component of Wind.	East or West Component of Wind.	Number of Five-day Period.	Barometric Pressure.	Temperature of the Air.	Pressure of Vapour.	Additional Capacity of the Air.	Rainfall.	North or South Component of Wind.	East or West Component of Wind.
	In.	°	In.	In.	In.	Miles.	Miles.		In.	°	In.	In.	In.	Miles.	Miles.
1 ...	29·957	77·8	0·664	0·297	...	5·4 N	0·7 E	38 ...	29·746	83·1	0·909	0·225	·033	4·1 S	5·2 W
2 ...	·917	75·0	·621	·251	...	3·2 N	1·0 W	39 ...	·716	83·7	·933	·222	·010	1·3 S	3·5 W
3 ...	·943	76·5	·636	·284	...	4·6 N	0·6 E	40 ...	·618	80·0	·918	·116	16·26	3·6 S	6·1 W
4 ...	·935	75·2	·598	·283	...	5·3 N	0·2 W	41 ...	·548	79·8	·915	·106	19·66	1·0 S	17·3 W
5 ...	·929	74·3	·630	·223	...	5·2 N	1·3 W	42 ...	·586	79·8	·906	·114	8·29	2·5 S	17·5 W
6 ...	·899	75·9	·708	·191	...	5·7 N	3·4 W	43 ...	·643	80·9	·915	·140	1·46	6·5 S	17·1 W
7 ...	·905	72·1	·532	·261	...	2·3 N	0·1 E	44 ...	·639	80·9	·898	·156	0·45	6·4 S	17·1 W
8 ...	·949	74·8	·622	·244	0·27	4·8 N	1·4 W	45 ...	·657	78·4	·872	·100	9·90	3·2 S	18·4 W
9 ...	·908	74·8	·624	·242	...	0·0 N	3·5 W	46 ...	·688	79·1	·871	·122	2·58	5·4 S	19·3 W
10 ...	·901	76·0	·693	·207	...	0·1 N	5·4 W	47 ...	·736	79·5	·859	·149	0·80	4·8 S	15·4 W
11 ...	·929	74·5	·589	·271	...	7·4 N	4·2 W	48 ...	·757	79·6	·855	·156	0·91	1·8 S	13·9 W
12 ...	·910	79·0	·678	·318	...	10·0 N	4·5 W	49 ...	·792	79·9	·816	·207	0·37	1·7 S	10·3 W
13 ...	·892	77·9	·678	·281	...	6·4 N	4·6 W	50 ...	·792	80·2	·834	·199	0·46	1·7 S	9·9 W
14 ...	·898	77·3	·720	·219	...	6·7 N	5·8 W	51 ...	·806	79·6	·807	·207	1·15	2·4 S	4·1 W
15 ...	·838	77·2	·720	·217	..	7·5 N	4·6 W	52 ...	·847	80·7	·822	·229	0·01	1·3 N	5·2 W
16 ...	·890	78·3	·665	·308	...	5·9 N	4·8 W	53 ...	·846	81·2	·886	·182	0·06	5·2 N	5·5 W
17 ...	·884	80·1	·811	·217	...	2·0 N	5·2 W	54 ...	·832	80·7	·889	·160	0·05	7·2 N	6·3 W
18 ...	·864	81·3	·796	·279	...	3·3 N	3·1 W	55 ...	·811	81·2	·929	·136	0·92	2·4 N	2·0 W
19 ...	·867	83·0	·790	·344	...	4·3 N	4·8 W	56 ...	·780	83·4	·959	·188	...	2·1 N	3·2 W
20 ...	·811	82·9	·823	·304	...	7·7 N	6·7 W	57 ...	·852	81·3	·886	·186	0·02	6·2 N	4·5 W
21 ...	·799	81·4	·836	·241	...	4·2 N	6·7 W	58 ...	·840	82·0	·924	·169	...	0·3 N	2·1 W
22 ...	·787	81·8	·795	·294	0·05	4·4 N	5·4 W	59 ...	·805	81·0	·856	·203	...	5·5 N	3·4 W
23 ...	·805	83·5	·761	·387	...	8·3 N	3·6 W	60 ...	·845	80·9	·853	·205	...	3·2 N	2·6 W
24 ...	·782	82·1	·824	·275	0·01	1·5 N	5·4 W	61 ...	·849	81·4	·761	·319	...	2·1 N	0·4 E
25 ...	·769	83·0	·812	·322	...	5·8 N	7·3 W	62 ...	·866	81·7	·750	·341	...	3·8 N	0·6 E
26 ...	·766	83·1	·815	·323	...	2·1 N	6·4 W	63 ...	·870	81·7	·740	·348	...	2·5 N	0·6 E
27 ...	·803	83·7	·855	·302	...	2·4 N	7·3 W	64 ...	·847	79·8	·664	·363	...	3·8 N	0·1 E
28 ...	·858	84·2	·864	·313	...	1·5 N	7·6 W	65 ...	·878	80·3	·782	·257	...	4·5 N	1·8 W
29 ...	·817	84·7	·848	·346	...	2·4 N	8·3 W	66 ...	·881	79·8	·681	·343	...	3·9 N	1·5 E
30 ...	·765	85·2	·870	·344	...	0·1 S	6·6 W	67 ...	·864	79·9	·700	·327	...	5·7 N	1·3 W
31 ...	·723	86·0	·906	·340	0·22	9·4 S	1·6 W	68 ...	·922	75·8	·532	·368	...	5·5 N	1·5 E
32 ...	·726	85·3	·907	·311	0·15	3·2 S	5·8 W	69 ...	·910	75·2	·591	·292	...	4·6 N	1·2 E
33 ...	·559	84·7	·920	·277	1·32	8·1 S	1·4 E	70 ...	·912	76·5	·553	·367	...	6·7 N	3·4 E
34 ...	·601	80·2	914	·120	17·99	13·3 S	1·3 W	71 ...	·903	75·4	·584	·305	...	5·8 N	0·5 E
35 ...	·743	83·1	·918	·217	0·52	5·3 S	14·2 W	72 ...	·952	76·2	·577	·337	...	3·8 N	3·9 E
36 ...	·666	82·5	·951	·161	2·28	1·8 S	9·4 W	73 ...	·959	74·7	·627	·238	...	3·0 N	0·6 E
37 ...	·675	81·5	·926	·151	14·19	2·2 S	8·0 W								

* Five-day sums, not means

Barometric Pressure, 1908.

TABLE Ia.—*Daily and Monthly Means.*

Height of the Barometer above mean sea-level = 37 feet.

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	29·987	29·852	29·843	29·787	29·787	29·776	29·558	29·619	29·729	29·780	29·761	29·990
2 ...	30·009	·949	·836	·764	·822	·768	·528	·591	·754	·839	·740	·954
3 ...	·001	·911	·851	·786	·806	·798	·606	·574	·767	·858	·709	·957
4 ...	·004	·882	·855	·777	·818	·769	·679	·603	·729	·853	·761	·959
5 ...	·038	·929	·844	·782	·807	·765	·692	·675	·723	·823	·818	·959
6 ...	·016	·999	·857	·783	·779	·766	·652	·702	·759	·825	·836	·948
7 ...	·027	·991	·877	·744	·775	·773	·666	·706	·785	·835	·848	·960
8 ...	·022	30·004	·834	·749	·759	·783	·724	·691	·794	·828	·892	·962
9 ...	29·970	·012	·910	·761	·745	·719	·756	·659	·806	·822	·942	·988
10 ...	·941	29·974	·898	·756	·793	·672	·734	·677	·816	·846	·941	30·009
11 ...	·995	·956	·938	·798	·806	·681	·674	·696	·832	·882	·923	·003
12 ...	30·006	·924	·968	·854	·814	·692	·674	·725	·834	·882	·922	·019
13 ...	29·959	·921	·936	·835	·834	·681	·693	·773	·831	·844	·905	·036
14 ...	·927	·913	·866	·768	·887	·624	·691	·778	·824	·851	·896	·010
15 ...	·929	·886	·874	·771	·851	·613	·661	·734	·818	·858	·912	29·960
16 ...	·953	·863	·907	·827	·838	·595	·651	·695	·760	·878	·944	·934
17 ...	·989	·864	·922	·850	·841	·590	·678	·679	·791	·886	·948	·964
18 ...	30·017	·870	·898	·825	·809	·626	·665	·708	·837	·857	·940	·956
19 ...	29·975	·864	·865	·783	·802	·631	·654	·668	·829	·883	·952	·923
20 ...	·930	·857	·918	·833	·838	·668	·654	·659	·774	·896	·946	·907
21 ...	·947	·826	·936	·834	·811	·705	·651	·655	·747	·868	·935	·901
22 ...	·988	·808	·901	·771	·781	·715	·636	·681	·747	·827	·945	·896
23 ...	·992	·795	·890	·759	·745	·684	·640	·735	·736	·783	·955	·877
24 ...	·949	·805	·896	·792	·788	·657	·658	·746	·740	·758	·961	·930
25 ...	·927	·806	·891	·796	·821	·671	·657	·740	·741	·788	·954	·957
26 ...	·924	·805	·872	·797	·799	·682	·630	·737	·739	·787	·926	·908
27 ...	·955	·836	·864	·803	·758	·681	·643	·712	·729	·779	·920	·895
28 ...	·939	·863	·870	·783	·710	·626	·643	·720	·715	·767	·928	·889
29 ...	·929	·843	·848	·772	·751	·581	·679	·762	·754	·778	·975	·894
30 ...	·829		·805	·792	·785	·584	·691	·777	·767	·779	·999	·911
31 ...	·783		·772		·789		·664	·757		·764		·922
Monthly mean ...	29·963	29·890	29·881	29·791	29·798	29·685	29·661	29·698	29·774	29·829	29·901	29·948
Annual Variation	+·145	+·072	+·063	−·027	−·020	−·133	−·157	−·120	−·044	+·011	+·083	+·130

Annual mean ... ... In. 29·818

TABLE Ib.—*Showing the mean diurnal inequality of the Barometric Pressure for each month of the year 1908, and for the whole year.*

Unity = 0·001 inch.

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 7 ...	+ 11	+ 7	+ 10	− 2	− 1	+ 10	+ 11	+ 8	+ 8	0	− 5	0	+ 5
1 7 ...	0	− 5	− 5	− 13	− 13	− 7	− 8	− 9	− 7	− 14	− 17	− 11	− 9
2 7 ...	− 15	− 22	− 17	− 28	− 23	− 19	− 23	− 25	− 22	− 22	− 29	− 20	− 22
3 7 ...	− 25	− 30	− 25	− 26	− 28	− 22	− 30	− 33	− 28	− 24	− 31	− 25	− 27
4 7 ...	− 26	− 31	− 23	− 23	− 23	− 21	− 30	− 31	− 25	− 20	− 27	− 21	− 25
5 7 ...	− 19	− 20	− 12	− 9	− 13	− 13	− 24	− 25	− 15	− 5	− 11	− 11	− 15
6 7 ...	− 3	− 1	+ 7	+ 7	+ 6	+ 5	− 9	− 12	− 1	+ 13	+ 11	+ 6	+ 2
7 7 ...	+ 19	+ 20	+ 28	+ 29	+ 26	+ 19	+ 8	+ 6	+ 20	+ 33	+ 34	+ 28	+ 22
8 7 ...	+ 43	+ 43	+ 50	+ 51	+ 42	+ 29	+ 20	+ 21	+ 39	+ 52	+ 56	+ 53	+ 42
9 7 ...	+ 63	+ 64	+ 62	+ 63	+ 51	+ 38	+ 30	+ 32	+ 49	+ 63	+ 68	+ 67	+ 54
10 7 ...	+ 64	+ 63	+ 63	+ 61	+ 50	+ 39	+ 33	+ 35	+ 47	+ 58	+ 61	+ 63	+ 53
11 7 ...	+ 46	+ 52	+ 48	+ 50	+ 43	+ 34	+ 30	+ 32	+ 37	+ 36	+ 38	+ 42	+ 41
12 7 ...	+ 15	+ 24	+ 20	+ 28	+ 26	+ 21	+ 20	+ 20	+ 15	+ 5	+ 5	+ 8	+ 17
13 7 ...	− 17	− 6	− 10	− 1	+ 3	+ 5	+ 8	+ 4	− 12	− 22	− 25	− 23	− 8
14 7 ...	− 42	− 32	− 37	− 27	− 19	− 15	− 7	− 12	− 35	− 45	− 42	− 44	− 30
15 7 ...	− 52	− 48	− 54	− 45	− 36	− 31	− 21	− 25	− 48	− 55	− 54	− 53	− 43
16 7 ...	− 52	− 51	− 58	− 56	− 44	− 39	− 31	− 33	− 50	− 51	− 51	− 51	− 47
17 7 ...	− 44	− 45	− 52	− 52	− 41	− 37	− 31	− 29	− 39	− 40	− 39	− 41	− 41
18 7 ...	− 28	− 34	− 39	− 38	− 29	− 28	− 22	− 19	− 23	− 27	− 22	− 26	− 28
19 7 ...	− 8	− 17	− 19	− 20	− 15	− 12	− 6	− 5	− 5	− 6	− 1	− 6	− 10
20 7 ...	+ 11	+ 7	+ 1	− 3	0	+ 3	+ 7	+ 11	+ 12	+ 12	+ 16	+ 11	+ 7
21 7 ...	+ 23	+ 22	+ 18	+ 12	+ 11	+ 13	+ 22	+ 25	+ 26	+ 22	+ 24	+ 19	+ 20
22 7 ...	+ 25	+ 25	+ 24	+ 21	+ 17	+ 22	+ 31	+ 32	+ 28	+ 19	+ 25	+ 17	+ 24
23 7 ...	+ 16	+ 16	+ 19	+ 14	+ 12	+ 16	+ 25	+ 25	+ 21	+ 11	+ 15	+ 7	+ 16
Range ...	116	119	121	119	95	78	64	68	99	118	122	120	101

Temperature of the Air, 1908.

TABLE IIa.—*Daily and Monthly Means.*

1908. Date	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1 ...	74·7	73·2	73·3	81·7	82·8	85·4	78·3	80·0	79·1	81·1	**81·7**	**75·6**
2 ...	75·0	69·3	**72·4**	80·7	83·2	85·5	80·2	78·8	80·1	80·9	80·7	74·7
3 ...	75·3	**67·4**	74·0	80·8	83·1	85·8	**82·1**	**78·5**	79·4	81·6	80·5	74·2
4 ...	75·6	68·5	74·1	80·9	83·3	86·1	80·6	79·8	78·8	81·9	79·9	74·5
5 ...	75·6	69·0	75·3	81·1	**82·6**	86·3	79·6	80·1	80·3	82·0	79·8	73·9
6 ...	76·0	70·7	75·9	80·7	82·8	86·2	79·9	80·1	79·5	81·8	79·1	74·7
7 ...	75·9	76·1	76·2	81·3	82·7	86·2	80·1	79·8	79·0	80·6	79·8	74·2
8 ...	74·7	**78·2**	75·4	82·2	83·3	86·4	81·9	79·7	78·6	79·2	79·2	73·3
9 ...	74·3	76·9	74·9	81·1	83·4	86·8	82·0	78·7	**78·5**	78·9	78·2	73·0
10 ...	74·5	75·1	74·3	80·3	84·4	**87·0**	80·9	79·1	79·2	**78·6**	77·6	75·1
11 ...	72·4	75·6	74·5	**79·4**	84·2	86·3	80·1	79·8	80·2	80·5	77·3	75·5
12 ...	70·7	72·9	75·2	79·7	84·5	85·4	78·8	79·9	79·2	81·1	77·4	75·3
13 ...	**69·5**	73·6	74·9	81·2	84·5	80·3	81·2	80·3	79·6	81·1	78·0	74·4
14 ...	71·9	74·6	74·8	84·9	84·0	81·2	80·8	**80·5**	79·8	81·3	79·1	74·6
15 ...	73·2	76·0	75·1	85·0	83·8	81·7	80·8	78·8	80·9	81·8	78·2	74·4
16 ...	74·2	76·4	74·8	84·1	84·0	81·4	81·6	78·9	81·4	81·5	77·8	74·1
17 ...	75·2	75·9	75·3	83·8	84·4	82·2	81·6	78·9	80·8	81·4	76·4	74·5
18 ...	75·8	74·6	75·8	81·7	84·0	81·5	81·0	79·1	79·6	80·7	76·1	74·2
19 ...	74·7	75·1	77·3	81·9	83·0	84·8	81·2	78·6	79·2	79·1	76·4	73·6
20 ...	75·2	74·9	77·3	81·9	83·1	83·7	81·2	79·3	79·7	80·2	75·0	72·2
21 ...	75·7	75·4	77·2	82·0	83·6	83·7	81·2	79·1	79·4	80·7	75·0	72·5
22 ...	**76·1**	75·1	77·2	84·2	84·2	80·0	80·0	79·4	80·1	81·9	75·1	71·0
23 ...	74·5	75·0	77·1	84·7	83·8	83·7	81·0	79·0	80·6	82·4	**74·8**	72·3
24 ...	74·1	76·2	76·2	84·7	84·3	84·5	80·2	80·0	81·0	**83·0**	75·9	72·7
25 ...	73·2	76·4	76·4	**85·1**	84·1	84·5	81·1	79·3	81·5	81·6	75·0	**70·7**
26 ...	73·2	76·4	78·9	83·4	84·6	83·9	79·7	79·0	82·4	82·3	75·6	73·4
27 ...	74·1	74·3	80·0	82·5	85·4	83·0	81·0	79·0	82·6	82·2	75·8	75·1
28 ...	74·5	74·3	80·5	82·0	85·7	82·8	79·8	79·6	**83·8**	80·4	77·0	75·3
29 ...	73·7	74·3	81·2	82·5	**86·1**	81·3	**77·3**	80·5	83·3	81·8	77·7	74·4
30 ...	73·4		81·7	82·4	85·8	**78·0**	79·6	80·0	82·1	81·7	75·7	73·4
31 ...	76·1		**82·0**		85·7		80·3	79·8		82·3		72·2
Monthly Mean ...	74·3	74·2	76·4	82·3	**84·0**	84·0	80·5	79·5	80·3	81·1	77·5	**73·9**
Annual Variation.	−4·7	−4·8	−2·6	+3·3	+5·0	+5·0	+1·5	+0·5	+1·3	+2·1	−1·5	−5·1

Annual mean ... ...

Temperature of the Air, 1908.

TABLE IIc.—*Showing the Maximum Temperature of the air on each day during the year 1908.*

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1	85·9	79·0	**83·0**	88·2	90·5	92·2	**79·0**	84·2	82·5	87·3	88·1	86·1
2	84·6	**76·0**	84·0	88·6	90·3	92·2	84·1	80·2	85·1	87·8	86·3	85·1
3	84·7	76·4	84·1	83·1	89·6	92·3	**86·1**	**80·0**	82·7	88·9	87·5	85·1
4	86·1	79·0	83·5	88·7	90·0	92·2	84·1	84·1	**82·1**	89·1	87·1	86·1
5	86·5	80·2	84·1	90·2	90·2	92·2	80·7	84·1	86·1	89·1	**89·2**	83·7
6	86·1	82·7	84·5	88·2	**89·1**	92·2	83·4	84·1	85·1	89·3	86·8	84·3
7	**87·4**	88·4	85·1	89·5	89·6	91·8	81·1	84·1	82·1	88·1	86·7	82·5
8	82·9	**90·2**	84·6	90·8	90·0	92·2	85·1	83·4	83·1	87·1	86·5	82·9
9	82·5	88·1	84·1	88·4	89·1	93·2	86·0	82·1	84·1	86·3	85·4	82·6
10	82·3	85·1	84·1	87·9	90·2	**94·2**	83·1	84·1	85·1	86·6	85·1	84·1
11	79·7	65·2	83·1	86·7	91·2	92·8	82·8	84·1	85·3	87·1	85·3	85·9
12	**79·0**	81·8	84·0	**86·1**	91·2	92·6	81·3	84·1	84·1	87·7	86·1	85·1
13	79·0	83·1	81·1	90·2	91·2	85·1	85·1	84·6	85·6	88·3	86·5	84·4
14	81·6	83·1	84·2	**100·1**	90·7	86·9	84·1	84·3	86·5	89·1	87·4	85·1
15	83·9	84·3	84·1	92·0	91·2	85·1	83·8	82·1	87·2	91·1	87·1	85·1
16	82·4	85·7	83·8	90·7	90·7	85·4	85·1	82·1	88·4	91·2	87·1	84·3
17	85·1	84·4	83·1	90·0	91·9	85·9	85·1	83·8	85·1	88·9	86·1	85·3
18	84·3	83·4	84·6	89·0	90·8	88·1	84·9	84·0	85·9	87·9	85·1	85·1
19	82·6	84·5	86·4	88·9	90·0	88·9	85·1	83·0	85·1	**85·1**	86·8	84·5
20	85·7	84·5	84·9	89·1	90·2	88·8	85·2	83·1	86·1	86·9	**83·8**	81·1
21	85·2	86·0	84·3	89·4	91·3	88·3	85·1	82·1	86·1	87·3	85·1	81·1
22	87·3	85·5	84·7	91·9	90·0	83·7	83·7	83·7	86·7	89·4	84·1	80·2
23	83·9	85·1	85·0	90·7	89·8	89·1	85·2	82·3	86·2	91·2	84·7	80·0
24	83·5	85·3	84·1	91·2	89·7	89·1	83·1	84·1	87·1	**93·1**	86·1	80·0
25	81·2	86·3	84·2	93·2	89·8	89·9	84·7	81·2	86·5	85·6	84·0	**79·8**
26	81·7	84·3	87·3	89·2	90·4	87·1	83·3	82·6	89·1	89·6	84·5	84·9
27	82·8	82·8	89·1	89·2	91·0	86·9	85·3	83·8	89·1	88·1	85·2	**87·1**
28	83·1	81·9	87·5	89·2	91·0	86·3	83·1	84·0	**90·3**	85·9	87·1	85·3
29	81·9	82·8	88·0	89·4	**92·0**	85·7	79·4	**85·1**	89·1	87·7	86·7	83·1
30	80·3		88·6	90·6	91·4	**79·6**	83·9	83·7	88·1	88·1	86·7	84·1
31	83·1		**89·1**		92·0		83·6	84·4		87·3		82·1
Monthly Mean.	83·4	83·6	85·0	89·8	**90·5**	89·0	83·7	**83·3**	85·9	88·3	86·1	83·8

Annual mean ... ... 86°0
The greatest maximum temperature recorded during the year (that of 14th April) was ... 100·1

TABLE IId.—*Showing the Minimum Temperature of the air on each day during the year 1908.*

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1 ...	66·3	71·3	68·7	77·6	**78·6**	81·4	**75·4**	77·4	77·4	77·4	**79·4**	70·3
2 ...	67·1	67·8	**63·5**	77·4	80·2	81·7	77·8	76·4	77·4	76·6	76·4	69·1
3 ...	70·3	61·3	69·3	75·6	78·8	82·4	77·5	77·4	76·4	77·8	76·4	68·5
4 ...	68·3	62·3	69·1	76·4	78·8	82·6	77·4	76·9	77·0	78·4	75·4	68·2
5 ...	69·9	**60·4**	71·3	76·4	79·1	82·9	76·8	76·4	77·1	78·4	72·3	68·3
6 ...	70·5	62·9	71·3	76·2	79·4	82·4	76·0	**78·4**	76·4	77·0	74·4	69·1
7 ...	69·7	66·3	72·3	75·4	79·6	82·4	77·4	77·0	76·8	77·4	75·2	68·8
8 ...	69·3	**72·6**	70·3	76·4	80·2	83·0	77·9	77·4	76·2	75·4	75·9	69·3
9 ...	69·3	71·3	67·7	78·2	79·4	83·2	78·9	76·7	**75·4**	75·4	75·4	69·3
10 ...	**71·8**	68·3	67·3	77·4	80·6	**83·4**	78·4	75·7	75·9	73·9	72·3	70·1
11 ...	69·3	69·9	68·8	76·1	80·4	83·1	77·2	76·6	76·4	77·5	72·7	69·5
12 ...	66·4	67·7	70·3	75·5	81·2	82·2	76·4	76·4	77·0	78·4	72·4	70·3
13 ...	**62·3**	67·8	68·3	**75·4**	80·2	78·4	76·4	77·2	75·4	77·9	72·8	68·6
14 ...	65·3	68·3	66·7	76·4	8 ·4	78·6	76·9	77·5	76·4	78·4	7·6	69·3
15 ...	66·3	69·5	70·0	80·4	80·4	78·4	77·2	76·2	78·4	77·4	72·3	69·3
16 ...	68·3	69·5	69·5	**81·4**	80·6	78·4	**79·8**	**75·4**	78·9	70·7	72·3	68·3
17 ...	69·7	71·2	70·3	79·4	80·5	78·4	78·1	75·4	78·4	77·5	69·6	68·8
18 ...	70·8	69·3	70·3	77·3	79·7	80·4	79·2	76·0	78·9	78·8	70·3	68·5
19 ...	70·5	68·6	70·3	77·7	78·9	82·4	78·4	75·8	76·4	**72·8**	71·0	67·3
20 ...	69·2	68·3	73·7	76·9	79·4	79·4	78·4	77·2	77·0	76·4	69·5	66·3
21 ...	70·3	67·8	73·9	77·4	80·4	77·1	79·2	77·4	77·2	78·1	**68·3**	66·5
22 ...	69·3	68·8	74·4	78·9	81·4	77·9	77·5	76·4	76·5	77·6	69·3	65·8
23 ...	67·6	68·3	73·0	81·4	79·4	78·2	77·4	75·5	75·8	77·9	68·9	67·3
24 ..	68·0	70·3	72·5	81·4	80·4	81·4	78·8	77·8	78·4	78·4	69·3	69·1
25 ...	69·0	70·3	71·8	80·1	79·5	81·8	78·0	76·4	76·4	78·4	69·1	**64·3**
26 ...	68·3	71·3	73·5	79·4	80·4	81·4	78·2	75·9	79·6	78·8	70·3	66·8
27 ...	69·1	69·9	74·8	77·9	81·4	78·1	78·0	76·6	79·2	**79·3**	70·4	70·3
28 ...	69·2	70·3	75·4	77·3	82·2	81·4	78·9	77·9	80·4	76·4	71·3	**70·8**
29 ...	68·1	70·3	77·1	78·4	**82·4**	78·6	75·4	78·2	**80·6**	78·8	72·3	68·3
30 ...	68·3		76·4	78·4	82·2	**76·5**	75·4	77·4	78·8	77·4	70·1	66·3
31 ...	71·3		**77·4**		81·9		77·5	77·4		78·6		64·8
Monthly Mean	68·7	68·3	71·3	77·8	80·3	**80·6**	77·6	76·8	77·4	77·4	72·3	**68·1**

Annual mean ... ... 74°7
The least minimum temperature recorded during the year (that of 5th February) was ... 60·4

Pressure of Vapour, 1908.

TABLE IIIa.—*Daily and Monthly Means.*

1908 Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	0·572	0·591	0·438	0·814	0·915	0·670	0·898	0·879	0·875	0·820	0·921	0·547
2 ...	·584	·479	·468	·817	·868	·879	·917	·885	·872	·816	·857	·544
3 ...	·592	·431	·636	·823	·866	·886	·928	·882	·866	·861	·844	·527
4 ...	·604	·416	·683	·832	·842	·906	·933	·895	·866	·887	·843	·530
5 ...	·612	·408	·699	·826	·840	·896	·912	·889	·876	·904	·764	·598
6 ...	·580	·459	·656	·804	·862	·892	·908	·884	·853	·854	·787	·596
7 ...	·580	·520	·561	·774	·859	·886	·902	·892	·826	·855	·793	·612
8 ...	·590	·643	·480	·721	·863	·911	·929	·886	·853	·836	·826	·532
9 ...	·628	·638	·450	·782	·840	·929	·919	·869	·854	·826	·789	·575
10 ...	·678	·618	·497	·773	·876	·933	·912	·880	·843	·859	·750	·637
11 ...	·582	·593	·579	·697	·842	·959	·900	·881	·821	·930	·751	·618
12 ...	·455	·652	·573	·554	·842	·965	·884	·881	·850	·944	·736	·572
13 ...	·408	·621	·498	·584	·826	·921	·915	·886	·859	·931	·722	·573
14 ...	·484	·656	·547	·653	·831	·918	·902	·872	·846	·886	·685	·557
15 ...	·526	·676	·651	·802	·825	·948	·900	·857	·893	·838	·676	·555
16 ...	·612	·676	·690	·971	·850	·943	·906	·869	·952	·828	·623	·543
17 ...	·678	·705	·730	·950	·879	·960	·907	·872	·935	·887	·549	·576
18 ...	·709	·668	·730	·880	·842	·960	·899	·873	·903	·910	·556	·555
19 ...	·718	·639	·666	·880	·809	·960	·886	·872	·904	·851	·522	·578
20 ...	·631	·570	·728	·863	·827	·944	·901	·873	·912	·904	·559	·592
21 ...	·606	·504	·741	·858	·889	·950	·890	·871	·911	·886	·581	·606
22 ...	·621	·426	·758	·880	·901	·915	·872	·867	·920	·872	·584	·624
23 ...	·627	·587	·702	·953	·848	·955	·895	·866	·920	·799	·604	·653
24 ...	·612	·701	·744	·946	·820	·938	·892	·856	·922	·759	·615	·638
25 ...	·661	·671	·746	·813	·829	·941	·904	·863	·950	·751	·612	·425
26 ...	·656	·650	·737	·780	·861	·936	·911	·868	·933	·820	·614	·466
27 ...	·639	·657	·775	·809	·884	·919	·915	·854	·963	·924	·660	·535
28 ...	·572	·607	·841	·834	·918	·924	·895	·856	·963	·890	·624	·577
29 ...	·608	·522	·884	·876	·921	·913	·859	·863	·906	·920	·569	·574
30 ...	·662		·853	·884	·893	·874	·878	·864	·811	·916	·550	·522
31 ...	·718		·840		·884		·875	·862		·958		·499
Monthly Mean ...	0·607	0·586	0·664	0·814	0·860	0·924	0·901	0·873	0·889	0·868	0·686	0·566
Annual Variation.	−·163	−·184	−·106	+·044	+·090	+·154	+·131	+·103	+·119	+·098	−·084	−·204

TABLE IIIb.—*Showing the mean diurnal inequality of Pressure of Vapour for each month of the year 1908, and for the whole year.*

Unity = 0·001 inch.

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 2	− 8	+ 9	+ 8	− 9	− 3	−12	− 7	−11	−15	+ 5	+16	+15	− 1
1 2	− 1	+15	+ 2	−15	− 8	−15	−11	−11	−18	0	+ 7	+ 4	− 4
2 2	+ 2	+ 5	+ 9	−15	−13	−12	−11	−14	−16	− 6	+ 2	− 9	− 6
3 2	− 4	− 4	− 1	−21	−16	−19	−14	−15	−20	−16	− 6	−13	−12
4 2	−18	−12	−16	−20	−20	−11	−14	− 9	−22	−23	−17	−25	−17
5 2	−30	−22	−32	−32	−26	−23	−15	−17	−24	−31	−27	−44	−27
6 2	−44	−48	−35	−25	−21	−15	− 8	−13	−16	−30	−32	−44	−28
7 2	−49	−66	−30	−15	−18	−13	−12	− 8	− 9	−19	−28	−47	−26
8 2	−39	−54	−36	−12	−10	− 2	+ 1	+ 7	+11	− 8	−29	−44	−18
9 2	−31	−43	−36	−18	− 9	+ 6	+ 3	+10	+13	− 6	−24	−33	−14
10 2	−26	−30	−29	+ 2	+ 2	+21	+20	+24	+27	+ 2	−18	−26	− 3
11 2	−36	−26	− 4	+18	+ 8	+18	+22	+19	+26	− 9	−53	−41	− 5
12 2	−39	+10	+12	+35	+12	+26	+15	+33	+30	− 4	−56	−68	0
13 2	−22	+26	+25	+25	+13	+22	+22	+20	+32	+15	−38	−60	+ 7
14 2	+ 1	+42	+26	+28	+18	+27	+27	+18	+38	+27	− 2	+ 4	+21
15 2	+32	+41	+18	+14	+14	+26	+17	+13	+22	+23	− 1	+49	+22
16 2	+53	+40	+17	+11	+18	+ 9	+14	+14	+17	+26	+22	+66	+26
17 2	+61	+42	+11	+17	+12	+ 1	+ 3	+ 6	− 1	+ 9	+34	+66	+22
18 2	+58	+31	+11	+13	+12	+ 4	− 3	− 8	−13	+ 6	+53	+65	+19
19 2	+55	+21	+ 8	+11	+ 7	− 1	− 2	−11	−11	+ 7	+54	+67	+17
20 2	+46	+15	+15	+15	+ 9	− 3	− 8	−11	−14	+15	+61	+67	+17
21 2	+32	+ 3	+19	+ 9	+ 7	− 8	− 7	−17	−20	+13	+44	+47	+10
22 2	+ 7	− 1	+18	0	+ 7	− 5	−10	− 4	− 9	+ 9	+17	− 2	+ 2
23 2	− 9	− 1	+18	− 5	0	−13	−14	−13	−16	+ 5	+ 6	− 4	− 4
Range ...	110	108	62	67	44	50	42	50	62	58	117	125	54

	In.
Annual mean	0·770

Additional Capacity of the Air, 1908.

TABLE IV*a*.—*Daily and Monthly Means.*

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	0·298	0·227	0·386	0·272	**0·211**	0·353	**0·070**	0·146	0·118	0·242	**0·162**	0·346
2 ...	·292	·237	·338	·231	·272	·346	·112	·100	·158	·242	·194	·322
3 ...	·292	·243	·207	·231	·271	·350	·171	**·693**	·137	·219	·202	·325
4 ...	·290	·286	·164	·226	·303	·343	·112	·125	·117	·206	·179	·336
5 ...	·282	·307	·180	·241	·276	·361	·100	·138	·161	·190	·259	·245
6 ...	**·327**	·303	·242	·248	·263	·364	·115	·143	·156	·235	·210	·271
7 ...	·326	·399	·345	·301	·262	**·366**	·126	·126	·164	·190	·227	·238
8 ...	·274	·332	·403	·383	·278	·352	·159	·128	·126	·164	·175	·292
9 ...	·223	·297	**·418**	·284	·308	·349	·173	·114	·122	·163	·180	·245
10 ...	·180	·260	·355	·262	·309	·353	·141	·116	·158	·121	·199	·241
11 ...	·216	·299	·279	·308	·335	·299	·129	·138	·213	**·114**	·190	·272
12 ...	·259	**·160**	·306	·463	·340	·256	·100	·140	·149	·117	·207	·309
13 ...	·319	·212	·372	·486	·358	·116	·153	·150	·152	·132	·241	·285
14 ...	·303	·206	·320	**·561**	·337	·148	·148	·168	·174	·183	·313	·308
15 ...	·299	·225	·223	·408	·336	·134	·153	·126	·163	·250	·295	·301
16 ...	·239	·236	·175	**·199**	·322	·131	·174	·118	·122	·253	·338	·307
17 ...	·202	·193	**·152**	·213	·305	·142	·173	·116	·117	·185	·368	·286
18 ...	·187	·191	·168	·204	·327	·227	·160	·123	·107	·139	·349	·299
19 ...	**·144**	·236	·272	·214	·321	·236	**·180**	·107	**·094**	·147	**·397**	·259
20 ...	·250	·300	·211	·232	·310	·212	·166	·130	·103	·127	·314	·203
21 ...	·289	·381	·193	·240	·266	·208	·176	·122	·096	·161	·295	·196
22 ...	·288	**·450**	·177	·298	·275	·110	·152	·139	·111	·221	·293	·161
23 ...	·232	·282	·230	·241	·315	·202	·165	·127	·130	·314	·265	**·142**
24 ...	·234	·209	·163	·251	**·359**	·249	·140	·170	·140	**·374**	·288	·169
25 ...	·160	·245	·168	·399	·343	·245	·157	·137	·129	·328	·261	·331
26 ...	·166	·262	·259	·366	·330	·227	·103	·122	·176	·287	·279	**·363**
27 ...	·207	·195	·256	·305	·340	·212	·144	·138	·153	·177	·238	·341
28 ...	·288	·245	·202	·264	·317	·200	·120	·155	·197	·149	·309	·306
29 ...	·228	·329	·183	·240	·331	·159	·077	**·177**	·234	·166	·389	·281
30 ...	·165		·234	·226	·345	**·084**	·135	·159	**·287**	·171	·348	·306
31 ...	·186		·257		·351		·157	·157		·147		·296
Monthly Mean ...	0·248	0·267	0·253	0·293	**0·310**	0·244	0·140	**0·134**	0·149	0·197	0·265	0·277
Annual Variation.	+ ·017	+ ·036	+ ·022	+ ·062	+ ·079	+ ·013	− ·091	− ·097	− ·082	− ·034	+ ·034	+ ·046

TABLE IV*b*.—*Showing the mean diurnal inequality of the Additional Capacity of the Air for each month of the year 1908, and for the whole year.*

Unity = 0·001 inch.

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 2	− 69	− 73	− 74	− 75	− 84	− 38	− 16	− 23	− 39	− 67	− 92	− **95**	− 62
1 2	− 92	− 88	− 79	− 82	− 89	− 46	− 17	− 20	− 44	− 72	− 97	− 94	− 68
2 2	− 99	− 91	− 94	− 88	− 91	− 54	− 16	− 21	− 48	− 71	− 98	− 87	− 71
3 2	**− 100**	− 90	− **96**	− 94	− 96	− 56	− 12	− 20	− 47	− 68	− 100	− 93	− 73
4 2	− 89	− 90	− 92	− 98	− 97	− 60	− 18	− **26**	− 50	− 69	− 98	− 91	− 73
5 2	− 85	− **93**	− 89	− 102	− 98	− 57	− 24	− 22	− 55	− 72	− **101**	− 83	− 73
6 2	− 80	− 80	− 94	**− 107**	− **98**	− **67**	− 26	− 25	− **62**	− **78**	− 99	− 88	− **75**
7 2	− 83	− 69	− 88	− 74	− 60	− 49	− 21	− 23	− 58	− 69	− 93	− 85	− 64
8 2	− 60	− 35	− 20	− 9	− 8	− 20	− 11	− 12	− 46	− 40	− 57	− 55	− 31
9 2	− 24	+ 14	+ 35	+ 54	+ 42	+ 13	+ 2	+ 4	− 20	0	− 13	− 22	+ 7
10 2	+ 39	+ 70	+ 97	+ 98	+ 86	+ 41	+ 16	+ 21	+ 4	+ 47	+ 43	+ 40	+ 50
11 2	+120	+124	+ 98	+121	+120	+ 70	+ 21	+ 21	+ 33	+100	143	+122	+ 91
12 2	+186	**+138**	+116	+115	+146	+ 94	+ **35**	+ 38	+ 53	**+145**	+211	+227	+125
13 2	**+199**	+134	+115	+136	**+160**	**+100**	+ 25	+ **38**	+ 71	+134	**+223**	**+267**	**+133**
14 2	+188	+131	+123	**+141**	+158	+ 98	+ 22	+ 35	+ **86**	+122	+195	+217	+126
15 2	+147	+116	**+125**	+140	+145	+ 87	+ 29	+ 22	+ 85	+108	+181	+137	+110
16 2	+100	+ 97	+108	+120	+115	+ 72	+ 22	+ 22	+ 77	+ 83	+125	+ 80	+ 85
17 2	+ 36	+ 45	+ 75	+ 66	+ 61	+ 44	+ 16	+ 14	+ 67	+ 43	+ 42	+ 17	+ 44
18 2	− 11	+ 1	+ 20	+ 1	− 1	+ 2	+ 3	+ 4	+ 33	+ 8	− 15	− 26	+ 2
19 2	− 36	− 13	− 2	− 31	− 38	− 20	− 4	− 4	+ 14	− 8	− 34	− 46	− 18
20 2	− 44	− 16	− 21	− 49	− 55	− 27	− 4	0	− 2	− 25	− 57	+ 63	− 30
21 2	− 51	− 28	− 42	− 56	− 66	− 33	− 9	− 1	− 7	− 38	− 63	− 66	− 38
22 2	− 43	− 41	− 55	− 55	− 72	− 38	− 5	− 12	− 24	− 48	− 61	− 46	− 42
23 2	− 53	− 59	− 68	− 65	− 75	− 45	− 8	− 15	− 29	− 59	− 74	− 68	− 51
Range ...	299	231	223	248	258	167	61	64	148	223	324	362	208

Annual mean ... ... In. 0·231

Rainfall, 1908.

TABLE Va.—*Total fall of rain (in inches) as measured by F. Chambers's self-registering gauge, the funnel of which is 28 feet above the ground.*

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.			In.	In.	In.	In.	In.		
1	...	0·03	...	...	...	...	4·26	0·20	0·58	...	...	...
2	...	...	...	...	...	...	0·67	0·71	0·02	...	...	...
3	...	...	...	...	...	...	0·41	0·69	0·12	...	...	...
4	...	...	...	...	...	...	2·19	0·13	0·20	...	..	...
5	...	...	...	...	...	...	1·65	0·19	0·05	...	...	...
6	...	...	...	...	...	...	1·85	0·10	0·07	...	...	...
7	...	...	...	...	...	...	0·88	0·67	0·09	...	...	...
8	...	...	...	...	...	...	0·05	0·52	0·09	...	...	..
9	...	...	...	...	...	...	0·04	0·31	0·15	...	...	...
10	0·06	...	...	...	...	...	0·27	0·36	0·05	...	...	...
11	0·01	...	...	...	...	0·02	0·66	0·26	...	...	...	...
12	...	...	...	..	...	0·66	1·87	0·03	0·02	...	...	...
13	...	...	...	...	...	0·83	...	0·38	...	...	...	...
14	...	...	...	...	...	0·52	0·57	0·20	...	...	...	...
15	...	...	...	...	...	0·13	0·18	0·38	0·03	...	...	...
16	...	...	...	...	...	0·79	0·03	1·23	...	...	...	...
17	...	...	...	...	...	2·73	0·14	0·74	0·27	...	...	...
18	...	...	...	...	...	0·01	0·37	0·15	1·29	0·01	...	...
19	...	...	...	...	..	0·01	0·04	0·48	0·50	0·24	...	...
20	...	...	...	...	...	0·61	0·15	0·22	1·13	...	...	...
21	...	...	...	...	...	0·27	0·04	0·19	1·45	...	...	...
22	...	...	0·03	...	...	3·37	0·23	0·21	0·17	...	...	...
23	...	...	...	...	...	...	0·13	0·40	0·05	...	.	...
24	...	...	...	...	...	...	0·42	...	0·28	...	...	...
25	...	...	...	...	...	...	...	0·54	...	...	...	...
26	...	...	...	...	...	...	0·51	0·21	...	...	...	...
27	...	...	...	...	...	0·34	0·11	0·09	...	...	...	...
28	...	...	...	...	...	0·08	0·79	...	...	0·36	...	...
29	...	...	...	...	...	0·27	1·88	...	...	...	...	...
30	...		...	...	...	3·92	0·34	...	...	...	...	...
31	...		...		...		0·33	0·09		...		...
Monthly Total.	0·07	0·03	0·03	...	...	14·56	21·06	9·88	6·61	0·61	...	...
Number of rainy days.	2	1	1	...	...	16	29	27	20	3	...	...

Inches.

Total fall of rain in the year ... ... 52·85
Total number of rainy days in the year 99
The greatest daily fall of rain in the year (that of 1st July) was ... ... 4·26

No rain fell in the months of April, May, November and December, nor on any of the days left lank in the above table.

TABLE Vb.—*Total fall of rain (in inches) as measured by Newman's gauge, placed 4½ feet above the ground.*

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.			In.	In.	In.	In.	In.		
1	...	0·06	...	...	...	...	4·30	0·19	0·58	...	...	...
2	...	...	...	...	...	...	0·67	0·71	0·02	...	...	...
3	...	...	...	...	...	...	0·41	0·69	0·08	...	...	...
4	...	...	...	...	...	...	2·18	0·13	0·21	...	...	...
5	...	...	...	...	...	...	1·67	0·19	0·05	...	...	...
6	...	...	...	...	...	...	1·89	0·10	0·07	...	...	...
7	...	...	...	...	...	...	0·87	0·68	0·09		...	...
8	...	...	...	...	...	...	0·05	0·52	0·09	...	...	...
9	...	...	...	...	...	...	0·04	0·31	0·15	...	...	...
10	0·08	...	...	...	...	...	0·25	0·36	0·07	...	...	...
11	0·01	...	...	...	...	0·04	0·64	0·25	...	...	...	...
12	...	...	...	...	...	0·67	1·87	0·03	0·02	...	...	...
13	...	...	...	...	...	0·93	...	0·36	...	...	...	...
14	...	...	...	...	...	0·56	0·57	0·18	...	...	...	...
15	...	...	...	...	...	0·15	0·18	0·53	0·03	...	...	...
16	...	...	...	...	...	0·88	0·03	1·21	...	...	..	...
17	...	...	...	...	...	2·80	0·15	0·72	0·27	...	...	...
18	...	...	...	...	...	0·01	0·37	0·17	1·32	0·01	...	...
19	...	...	...	...	...	0·01	0·04	0·16	0·50	0·25	...	...
20	...	...	...	...	...	0·66	0·15	0·47	1·18	...	...	...
21	...	...	...	...	...	0·28	0·04	0·19	1·46	...	...	...
22	...	...	0·16	...	...	3·46	0·24	0·21	0·17	...	...	...
23	...	...	...	...	...	...	0·11	0·38	0·05	...	...	...
24	...	...	...	...	...	...	0·44	...	0·30	...	...	...
25	...	...	...	...	...	...	...	0·52	...	...	...	...
26	...	...	...	...	...	...	0·49	0·21	...	...	...	...
27	...	...	...	...	...	0·35	0·11	0·09	...	...	...	...
28	...	...	...	...	...	0·09	0·79	...	...	0·36	...	...
29	...	...	...	...	...	0·30	1·91	...	...	...	...	...
30	...		...	...	...	4·00	0·34	...	...	...	...	...
31	0·01		...		...		0·33	0·09		...		...
Monthly Total.	0·10	0·06	0·06	...	...	15·19	21·13	9·67	6·71	0·62	...	...
Number of rainy days.	3	1	1	...	...	16	29	27	20	3	...	..

Inches.

Total fall of rain in the year ... ... 53·54
Total number of rainy days in the year 100
The greatest daily fall of rain in the year (that of 1st July) was ... ... 4·30

No rain fell in the months of April, May, November and December, nor on any of the days left blank in the above table.

Velocity of Wind, 1908.

Robinson Beckley's Anemograph.

TABLE VIa.—*Mean velocity of the wind in miles per hour, without regard to the Direction from which it blew for each day of Bombay Civil Time; also the mean monthly velocity and its variation from the mean of the year.*

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
1 ...	7·7	11·4	14·0	5·7	11·5	9·0	7·2	20·5	12·5	6·0	7·0	10·7
2 ...	7·2	11·4	8·3	8·1	8·0	8·5	14·0	20·6	8·2	6·3	6·6	11·1
3 ...	7·6	9·0	7·7	7·9	7·3	6·8	16·5	21·7	3·5	9·1	5·8	10·1
4 ...	7·0	10·3	7·7	6·8	7·6	7·1	16·6	13·9	6·0	9·1	6·2	8·5
5 ...	8·1	12·9	10·6	7·2	8·8	7·5	16·0	11·6	8·1	8·7	7·0	7·7
6 ...	10·0	11·1	11·9	8·0	10·7	7·7	18·7	13·7	8·5	7·3	5·6	6·2
7 ...	8·5	11·5	15·4	9·7	9·7	7·4	18·0	10·7	9·1	8·6	5·1	7·7
8 ...	6·1	10·4	18·1	8·2	9·5	7·5	14·6	15·4	6·4	8·6	6·8	8·9
9 ...	6·6	8·0	16·2	11·4	7·3	8·9	13·2	13·3	7·4	7·8	8·6	7·8
10 ...	9·7	6·6	11·0	12·8	8·6	7·8	14·5	10·9	8·9	7·6	8·4	7·7
11 ...	8·5	8·1	12·7	10·6	8·6	6·5	17·5	14·3	6·3	5·2	8·9	9·1
12 ...	12·6	9·7	13·7	20·6	8·5	6·1	20·3	12·9	6·5	5·8	10·3	11·7
13 ...	11·1	9·4	11·7	17·4	9·5	12·3	17·5	17·0	6·1	6·4	7·9	7·5
14 ...	11·6	8·7	10·1	11·6	7·9	17·4	16·6	16·4	6·0	9·0	5·1	7·9
15 ...	11·2	9·2	9·8	9·0	10·3	29·9	17·0	18·5	8·2	9·8	7·1	9·1
16 ...	6·2	10·5	9·0	7·2	9·6	16·7	19·1	15·9	7·5	9·2	8·9	8·5
17 ...	6·6	12·1	8·6	6·5	8·1	15·2	19·4	14·6	8·5	9·3	8·5	10·0
18 ...	6·3	14·2	8·1	6·6	7·7	14·6	18·8	10·4	7·4	7·8	11·1	10·7
19 ...	7·1	11·4	11·1	8·2	7·4	13·2	16·5	11·2	6·5	7·6	11·2	9·2
20 ...	7·6	13·1	7·5	7·5	6·8	12·5	16·5	15·7	6·5	5·4	8·5	7·9
21 ...	7·6	12·0	9·4	6·3	8·7	9·5	19·4	18·6	6·1	6·2	7·9	8·3
22 ...	8·8	10·9	11·8	7·0	6·4	9·4	19·3	18·1	6·9	6·5	7·3	9·0
23 ...	8·4	7·5	11·5	9·6	6·5	12·8	17·4	16·3	6·6	7·4	7·4	7·4
24 ...	10·6	5·2	9·3	9·1	7·1	14·3	15·4	14·2	7·7	10·5	6·7	6·8
25 ...	10·0	8·6	7·5	11·9	5·4	16·7	14·8	16·5	7·5	7·0	8·2	11·9
26 ...	9·1	9·7	7·8	9·9	5·8	10·2	10·1	14·4	7·0	8·3	7·9	10·5
27 ...	9·0	7·2	7·2	7·3	8·2	8·2	16·1	19·0	6·0	5·5	6·1	13·9
28 ...	9·3	8·1	5·8	5·9	8·9	8·2	18·5	16·4	7·9	7·0	9·2	10·3
29 ...	7·2	10·8	6·7	9·1	7·8	9·0	22·9	15·2	8·7	5·7	11·2	7·5
30 ...	7·6		5·6	10·2	8·6	10·2	18·6	13·2	6·8	4·3	9·7	8·4
31 ...	8·8		5·9		9·7		17·6	11·7		5·2		10·4
Monthly Mean ...	8·4	10·0	10·1	9·2	8·3	11·0	16·8	15·4	7·3	7·4	7·9	9·1
Annual Variation.	−1·7	−0·1	0·0	−0·9	−1·8	+0·9	+6·7	+5·3	−2·8	−2·7	−2·2	−1·0

	Miles
The mean velocity for June to August	14·4
The mean velocity for September to May	8·6
The mean velocity for the year	10·1

TABLE VIb.—*Showing the mean diurnal inequality of the velocity of the wind in miles per hour for each month of the year 1908, and for the whole year.*

1908. Bombay Civil Time. Hourly Intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
0 to 1 ...	−3·4	−2·1	−0·9	−2·4	−1·3	+0·1	+0·1	0·0	−1·4	−2·2	−2·4	−3·4	−1·6
1 „ 2 ...	−2·5	−2·1	−1·5	−2·9	−1·9	−0·1	+1·2	0·0	−1·4	−1·7	−2·0	−2·4	−1·4
2 „ 3 ...	−2·1	−1·7	−2·3	−3·2	−1·9	−0·8	+1·0	+0·6	−1·2	−1·7	−0·9	−1·6	−1·3
3 „ 4 ...	−0·8	−1·9	−2·5	−3·0	−2·6	−0·6	+0·8	+0·3	−0·8	−1·9	−0·8	−0·9	−1·2
4 „ 5 ...	−0·4	−1·9	−2·0	−3·6	−2·5	−0·2	+0·4	+0·3	−1·0	−1·3	−0·2	−0·1	−1·0
5 „ 6 ...	−0·2	−2·1	−3·1	−3·8	−3·2	−0·4	−0·1	+0·6	−1·1	−1·4	+0·4	+0·9	−1·1
6 „ 7 ...	−0·2	−2·7	−3·1	−4·5	−3·3	−1·1	+0·2	+0·4	−0·7	−1·2	+0·3	+1·5	−1·2
7 „ 8 ...	−0·1	−2·4	−3·2	−2·9	−2·8	−0·9	+0·1	+0·3	−0·4	−0·5	−0·1	+1·6	−0·9
8 „ 9 ...	+0·2	−2·6	−2·6	−2·6	−2·3	−0·6	+0·2	+0·1	−0·2	−0·2	−0·3	+1·3	−0·8
9 „ 10 ...	−0·3	−2·7	−2·6	−1·7	−1·5	−0·6	−1·3	−0·3	−1·2	−1·2	−1·5	+0·3	−1·2
10 „ 11 ...	−1·7	−2·6	−1·2	+0·1	+0·1	+0·1	−0·4	−0·1	−1·3	−1·5	−2·5	−1·3	−1·0
11 „ 12 ...	−2·0	−1·5	+1·4	+1·8	+1·4	+0·4	+0·4	+0·5	−0·3	−0·2	−2·3	−2·3	−0·2
12 „ 13 ...	−0·8	+1·1	+3·4	+3·6	+2·2	+0·2	−0·7	+1·8	+1·1	+1·0	−0·6	−2·6	+0·8
13 „ 14 ...	+0·8	+2·3	+5·1	+4·7	+3·2	+0·9	−0·8	+0·4	+1·8	+2·0	+0·8	−1·1	+1·7
14 „ 15 ...	+1·7	+4·1	+6·1	+6·0	+4·6	+1·0	+0·1	+0·4	+3·0	+3·3	+2·2	+0·5	+2·7
15 „ 16 ...	+2·7	+4·6	+6·4	+6·0	+4·6	+1·1	+0·3	+0·4	+3·5	+3·2	+3·1	+1·6	+3·1
16 „ 17 ...	+2·8	+4·6	+5·3	+5·5	+4·2	+0·7	−0·4	+0·1	+3·6	+3·5	+3·4	+2·9	+3·0
17 „ 18 ...	+2·7	+4·7	+4·4	+3·6	+3·2	+0·6	−0·4	−0·4	+2·5	+3·5	+3·7	+3·9	+2·7
18 „ 19 ...	+3·5	+4·1	+2·2	+2·4	+1·9	+0·6	−0·4	−0·6	+1·4	+3·2	+3·1	+4·9	+2·2
19 „ 20 ...	+3·5	+4·0	+0·1	+1·2	+0·8	+0·8	−0·3	−0·6	+0·7	+1·4	+2·3	+4·4	+1·5
20 „ 21 ...	+1·6	+0·8	−1·1	+0·3	−0·2	+0·2	−0·4	−0·2	−1·0	−0·1	+0·6	+1·6	+0·2
21 „ 22 ...	−0·5	−1·2	−3·3	−0·9	−1·0	−0·7	−0·3	−1·2	−0·9	−1·7	−1·7	−2·2	−1·3
22 „ 23 ...	−1·7	−1·6	−3·0	−1·1	−1·1	−0·4	+0·1	−0·9	−2·1	−2·3	−2·5	−3·2	−1·6
23 „ 24 ...	−2·5	−2·1	−2·7	−1·7	−1·3	0·0	+0·4	−1·7	−2·2	−2·9	−3·0	−4·0	−2·0
Range ...	6·9	7·4	9·7	10·5	7·9	2·2	2·5	3·5	5·8	6·4	6·7	8·9	5·1

Mean Daily Velocities of the North and East Components of the Wind, 1908.

TABLE VIc.—*Showing the Mean Velocities of the North or South and East or West Components of the Winds which blew on each day of the year 1908.*

In miles per hour.

1908.	Month.																											
	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.					
Date.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.
1 ...	4·7 N	1·1 E	6·4 N	8·0 W	9·9 N	1·8 W	0·6 N	4·9 W	7·2 N	7·9 W	0·1 S	9·0 W	3·0 S	3·8 W	5·3 S	19·4 W	0·5 N	12·4 W	0·6 S	1·7 W	2·3 N	4·6 W	6·2 N	3·8 E				
2 ...	3·8 N	1·1 E	9·0 N	4·1 W	6·6 N	2·6 W	3·1 N	6·7 W	2·5 N	7·0 W	0·6 S	8·3 W	6·4 S	12·9 W	4·5 S	19·7 W	1·1 S	7·8 W	1·7 N	0·2 E	3·4 N	3·0 W	6·7 N	4·0 E				
3 ...	3·8 N	2·0 E	7·0 N	2·1 W	4·0 N	5·0 W	3·0 N	4·5 W	0·9 N	5·9 W	3·0 S	5·9 W	8·7 S	13·6 W	7·9 S	19·1 W	0·4 S	2·2 W	6·1 N	1·8 W	2·9 N	2·5 W	5·0 N	3·1 E				
4 ...	4·0 N	1·5 E	8·4 N	2·8 W	5·3 N	3·7 W	2·7 N	5·4 W	1·1 S	6·5 W	3·8 S	5·7 W	7·1 S	14·4 W	6·0 S	12·3 W	2·1 N	3·6 W	6·2 N	3·5 W	2·9 N	1·4 W	3·6 N	2·4 E				
5 ...	4·6 N	2·5 E	10·6 N	4·3 W	7·7 N	6·3 W	2·8 N	4·6 W	3·6 N	7·5 W	3·6 S	6·2 W	6·3 S	14·7 W	5·0 S	10·4 W	1·6 N	7·7 W	6·4 N	2·1 W	4·7 N	1·0 W	3·5 N	1·2 E				
6 ...	4·9 N	4·5 E	8·8 N	1·3 W	8·9 N	5·7 W	4·6 N	5·8 W	4·8 N	9·3 W	0·4 S	7·6 W	7·0 S	16·8 W	5·0 S	12·7 W	1·6 N	7·8 W	5·6 N	0·9 W	3·8 N	1·4 W	2·6 N	1·9 E				
7 ...	2·7 N	3·4 E	6·2 N	5·8 E	12·6 N	6·6 W	6·1 N	5·6 W	4·4 N	8·5 W	1·1 S	7·2 W	7·3 S	16·4 W	6·1 S	15·5 W	3·2 N	7·5 W	6·5 N	1·3 W	1·0 S	0·4 W	4·2 N	1·4 E				
8 ...	2·5 N	0·9 E	4·3 N	2·9 E	14·7 N	9·7 W	4·3 N	4·6 W	2·8 N	8·5 W	1·3 S	7·2 W	7·7 S	12·1 W	5·4 S	14·3 W	0·5 S	0·7 E	6·8 N	3·8 W	0·2 S	0·5 E	6·9 N	1·2 W				
9 ...	2·4 N	0·4 E	3·3 N	0·1 E	14·2 N	6·4 W	6·6 N	8·4 W	0·8 S	6·9 W	0·7 N	8·7 W	5·4 S	11·9 W	3·6 S	12·6 W	0·1 S	1·9 E	4·8 N	0·7 E	5·7 N	2·1 W	5·4 N	0·2 W				
10 ...	0·9 N	1·4 W	3·7 N	1·7 W	9·0 N	4·1 W	7·5 N	8·4 W	1·3 S	8·3 W	3·3 N	6·6 W	3·1 S	13·9 W	3·6 S	9·8 W	1·5 S	0·1 E	5·7 N	3·9 W	5·9 N	2·7 W	2·4 N	2·7 E				
11 ...	5·0 N	0·8 E	5·5 N	1·8 W	10·5 N	5·9 W	5·9 N	8·4 W	0·4 N	8·3 W	0·5 S	2·1 W	5·5 S	16·2 W	3·8 S	13·5 W	1·1 N	5·4 W	6·9 N	2·9 W	6·9 N	2·6 W	5·5 N	2·8 E				
12 ...	9·8 N	1·1 W	6·7 N	4·3 W	11·6 N	5·7 W	17·1 N	10·2 W	1·2 S	8·3 W	0·3 S	4·9 W	4·9 S	19·1 W	4·8 S	12·0 W	0·5 N	1·8 W	2·5 N	3·9 W	7·8 N	3·1 W	4·9 N	2·7 E				
13 ...	9·1 N	1·7 W	7·6 N	3·9 W	9·7 N	5·1 W	16·0 N	5·7 W	0·7 N	9·3 W	10·5 S	3·3 E	2·3 S	17·1 W	4·4 S	16·1 W	2·1 N	0·4 E	3·3 N	2·9 W	5·3 N	2·5 W	3·1 N	1·8 E				
14 ...	9·2 N	0·4 W	6·1 N	3·5 W	6·9 N	4·2 W	9·9 N	3·0 W	2·2 N	7·5 W	13·8 S	5·2 E	4·6 S	15·7 W	2·9 S	15·8 W	2·2 N	2·9 W	6·3 N	2·5 W	0·7 N	0·1 E	3·2 N	2·0 E				
15 ...	9·0 N	1·8 W	6·1 N	3·6 W	7·4 N	5·7 W	2·8 S	1·4 W	4·7 N	8·9 W	28·5 S	6·9 E	4·0 S	16·3 W	2·5 S	18·0 W	6·0 N	5·0 W	6·9 N	0·4 E	2·4 N	1·6 E	5·6 N	0·8 E				
16 ...	2·3 N	1·0 E	7·4 N	3·9 W	4·7 N	4·7 W	4·4 S	3·4 W	4·7 N	8·0 W	14·6 S	1·5 E	3·5 S	18·4 W	5·2 S	14·7 W	4·3 N	4·4 W	7·5 N	3·1 W	3·9 N	0·9 E	5·1 N	1·4 E				
17 ...	1·6 N	0·2 E	9·2 N	5·7 W	3·4 N	5·2 W	2·9 S	4·3 W	2·4 N	7·4 W	10·5 S	10·3 W	4·6 S	18·5 W	4·9 S	13·4 W	5·1 N	6·2 W	7·5 N	4·1 W	4·2 N	0·7 E	5·5 N	3·0 E				
18 ...	0·4 N	0·1 W	11·8 N	6·6 W	4·9 N	4·5 W	0·8 N	5·7 W	0·4 N	7·4 W	7·6 S	12·1 W	1·7 S	18·3 W	4·7 S	8·5 W	4·5 N	4·4 W	6·1 N	4·5 W	5·9 N	2·6 E	4·5 N	3·3 E				
19 ...	5·1 N	2·1 W	9·4 N	4·8 W	8·6 N	4·9 W	0·9 S	3·9 W	1·4 N	7·0 W	6·6 S	11·2 W	4·5 S	15·6 W	3·9 S	10·1 W	1·0 N	0·7 W	3·1 N	2·1 W	6·4 N	3·9 E	4·1 N	2·9 E				
20 ...	5·0 N	0·0	11·1 N	5·4 W	3·9 N	5·5 W	1·0 N	4·3 W	2·3 N	6·1 W	8·6 S	8·7 W	1·5 S	16·2 W	5·1 S	14·7 W	2·0 N	5·3 W	3·0 N	3·7 W	4·2 N	0·8 E	4·9 N	0·2 E				
21 ...	4·0 N	0·1 W	9·6 N	3·6 W	5·6 N	5·1 W	0·9 N	3·6 W	2·2 N	6·4 W	5·9 S	7·0 W	4·2 S	18·5 W	3·7 S	17·9 W	0·5 N	0·0	1·7 N	3·3 W	4·7 N	0·8 E	5·8 N	0·6 W				
22 ...	1·2 N	1·1 E	9·0 N	3·2 W	8·6 N	7·9 W	1·1 S	4·4 W	0·3 S	5·7 W	5·4 S	4·9 E	0·8 S	19·1 W	6·1 S	16·9 W	3·2 N	0·4 W	3·9 N	0·6 W	2·1 N	1·7 E	6·1 N	2·2 W				
23 ...	5·9 N	0·6 W	5·4 N	1·6 W	8·6 N	7·2 W	7·0 S	4·4 W	4·0 S	4·7 W	0·8 S	11·8 W	4·7 S	16·4 W	3·1 S	15·7 W	1·1 S	0·8 E	5·5 N	0·0	2·5 N	2·2 E	4·7 N	3·2 W				
24 ...	8·7 N	3·4 W	0·6 N	0·8 W	5·2 N	7·1 W	3·6 S	3·7 W	3·9 S	5·2 W	1·3 S	14·1 W	4·8 S	14·4 W	5·4 S	13·0 W	3·7 S	1·9 E	7·4 N	1·0 E	2·7 N	2·5 E	1·5 N	1·1 E				
25 ...	8·0 N	3·8 W	4·9 N	1·3 W	3·7 N	4·8 W	5·9 N	8·3 W	1·6 S	5·0 W	0·0	16·7 W	3·5 S	14·0 W	6·5 S	15·2 W	1·9 S	0·1 E	2·9 N	3·3 E	3·7 N	0·4 E	10·4 N	2·8 W				
26 ...	6·6 N	2·5 W	6·9 N	5·1 W	1·7 N	3·1 W	2·6 N	6·9 W	1·9 S	5·4 W	1·3 S	9·8 W	2·8 S	9·4 W	5·5 S	13·3 W	3·6 N	2·4 W	2·9 N	3·4 E	4·2 N	1·2 E	8·9 N	0·7 W				
27 ...	6·8 N	3·1 W	4·9 N	4·1 W	3·3 N	2·4 W	0·6 S	7·1 W	6·9 S	4·1 W	1·7 S	5·3 W	0·0	16·1 W	2·6 S	18·0 W	1·7 N	0·6 W	0·7 S	0·5 W	2·5 N	1·1 E	7·1 N	8·2 E				
28 ...	6·8 N	3·6 W	2·3 N	3·5 W	0·7 S	4·3 W	0·4 N	5·0 W	7·3 S	4·6 W	4·8 S	6·3 W	3·1 S	17·9 W	1·6 S	16·1 W	2·9 N	7·2 W	3·1 N	2·0 E	3·7 N	2·1 E	4·8 N	5·2 E				
29 ...	4·7 N	1·2 W	5·8 N	4·2 W	0·5 N	4·4 W	4·2 N	6·8 W	3·5 S	6·8 W	4·1 S	4·3 W	7·7 S	21·4 W	1·4 S	15·0 W	1·1 N	8·5 W	2·3 N	0·2 W	6·4 N	5·3 E	4·3 N	0·2 E				
30 ...	2·7 N	1·6 W			1·0 N	4·6 W	6·8 N	6·6 W	2·3 S	8·0 W	2·9 S	6·9 W	6·1 S	17·4 W	0·4 N	13·1 W	0·1 S	6·8 W	2·3 N	2·2 W	5·9 N	2·2 E	5·1 N	1·2 E				
31 ...	4·5 S	1·0 W			1·0 N	4·5 W			1·4 S	9·4 W			6·7 S	16·2 W	0·9 N	11·3 W			0·0	2·4 W			8·8 N	2·1 W				
Monthly Mean ...	4·6 N	0·3 W	6·8 N	3·0 W	6·4 N	5·1 W	3·0 N	5·5 W	0·3 N	7·1 W	4·7 S	6·1 W	4·6 S	15·6 W	4·2 S	14·5 W	1·3 N	3·5 W	4·2 N	1·5 W	3·9 N	0·1 E	5·2 N	1·4 E				
Annual Variation	2·8 N	4·8 E	5·0 N	2·1 E	4·6 N	0·0	1·2 N	0·4 W	1·5 S	2·0 W	6·5 S	1·0 W	6·4 S	10·5 W	6·0 S	9·4 W	0·5 S	1·6 E	2·4 N	3·6 E	2·1 N	5·2 E	3·4 N	6·5 E				

The Velocities of the Mean Components for the year are 1·8 N. and 5·1 W.

TABLE VId.—*Showing the Mean Diurnal inequality of the Velocity of the North or South and East or West Components of the Wind for each month of the year 1908, and for the whole year.*

1908.	Month.																								Year.	
	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.			
Bombay Civil time Hourly Intervals.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.
0 to 1	1·1 S	1·3 E	1·2 S	1·2 E	0·1 N	1·2 E	0·0	2·5 E	0·9 N	1·4 E	1·3 S	0·4 E	0·3 S	0·1 W	0·1 N	0·1 E	1·1 S	2·1 E	0·9 S	0·4 E	1·9 S	2·6 E	2·5 S	2·6 E	0·8 S	1·3 E
1 to 2	1·4 S	2·4 E	0·8 S	1·9 E	0·4 N	1·9 E	0·4 S	3·2 E	0·7 N	1·9 E	0·8 S	1·0 E	0·8 S	1·0 W	0·4 S	0·1 E	1·3 S	2·2 E	0·8 S	0·7 E	2·1 S	3·9 E	**2·7** S	3·7 E	0·9 S	1·8 E
2 to 3	1·5 S	3·2 E	0·2 S	2·2 E	0·1 S	3·0 E	0·0	3·9 E	**1·0** N	2·1 E	0·1 N	1·7 E	0·2 N	**1·1** W	0·2 N	0·7 W	0·6 S	2·5 E	1·0 S	1·8 E	1·9 S	4·8 E	2·7 S	4·6 E	0·5 S	2·3 E
3 to 4	1·2 S	4·5 E	0·4 S	2·8 E	0·3 S	3·5 E	0·5 S	4·6 E	0·4 N	2·7 E	0·2 S	1·9 E	0·8 N	1·0 W	0·3 N	0·4 W	0·7 S	2·6 E	0·6 S	2·4 E	1·0 S	4·6 E	1·7 S	5·3 E	0·4 S	2·8 E
4 to 5	0·7 S	4·9 E	0·3 S	3·9 E	0·0	4·1 E	1·3 S	5·7 E	0·5 N	2·7 E	0·1 S	1·7 E	0·8 N	0·5 W	0·3 N	0·4 W	1·1 S	3·1 E	0·5 S	3·8 E	0·8 S	5·7 E	1·0 S	6·0 E	0·3 S	3·4 E
5 to 6	0·9 S	5·7 E	1·0 S	5·3 E	1·0 S	5·6 E	1·5 S	6·0 E	0·1 S	3·5 E	0·0	1·7 E	0·8 N	0·2 W	0·2 N	0·7 W	0·9 S	3·3 E	1·1 S	4·2 E	0·7 S	6·3 E	0·9 S	7·0 E	0·6 S	4·0 E
6 to 7	0·9 S	6·1 E	1·9 S	5·9 E	1·8 S	6·1 E	2·2 S	5·8 E	0·1 N	**3·6** E	0·6 N	**3·2** E	0·7 N	0·5 W	0·2 N	0·5 W	1·5 S	**4·2** E	0·9 S	4·4 E	0·8 S	6·1 E	1·2 S	7·6 E	0·8 S	4·3 E
7 to 8	1·2 S	6·7 E	3·2 S	7·8 E	1·7 S	6·1 E	2·3 S	**6·3** E	0·2 S	3·3 E	0·6 N	2·7 E	**0·9** N	0·4 W	**0·6** N	0·4 W	1·6 S	3·9 E	1·1 S	6·0 E	1·7 S	**6·8** E	1·4 S	**7·9** E	1·0 S	4·7 E
8 to 9	1·4 S	**7·8** E	**3·7** S	**8·1** E	**1·9** S	**6·3** E	**2·5** S	5·0 E	0·6 S	2·3 E	0·0	2·4 E	0·7 N	0·9 E	0·2 N	0·3 W	**1·8** S	3·3 E	2·0 S	**6·7** E	1·9 S	6·7 E	2·0 S	7·6 E	1·4 S	**4·8** E
9 to 10	2·1 S	7·0 E	3·7 S	6·8 E	1·8 S	4·1 E	1·9 S	1·6 E	0·8 S	1·6 E	0·5 S	1·8 E	0·1 N	**1·4** E	0·1 S	0·2 E	1·1 S	2·8 E	2·4 S	5·7 E	2·4 S	5·8 E	2·2 S	6·3 E	**1·6** S	3·8 E
10 to 11	**2·7** S	5·5 E	2·7 S	3·5 E	1·7 S	0·8 E	1·5 S	0·9 W	1·2 S	0·1 E	0·4 S	1·0 W	0·4 S	0·5 E	0·5 S	0·2 E	1·2 S	1·4 E	**2·5** S	3·0 E	**2·6** S	3·9 E	2·1 S	4·0 E	1·6 S	1·7 E
11 to 12	2·0 S	0·8 E	2·5 S	0·5 W	1·0 S	4·2 W	1·0 S	3·6 W	**1·6** S	1·3 W	0·3 N	1·3 W	0·7 S	0·2 W	0·1 S	0·6 W	0·7 S	0·3 W	1·4 S	0·5 E	2·0 S	0·3 E	2·1 S	2·1 E	1·2 S	0·7 W
12 to 13	1·6 S	3·4 W	1·1 S	4·4 W	0·1 N	5·9 W	0·4 S	5·5 W	1·4 S	2·4 W	0·3 N	1·3 W	0·8 S	0·9 E	0·0	**1·7** W	0·6 S	3·0 W	0·9 S	2·9 W	1·1 S	3·7 W	2·4 S	1·3 W	0·8 S	2·9 W
13 to 14	1·0 S	6·4 W	0·2 S	6·2 W	1·0 N	7·5 W	0·6 N	7·0 W	1·1 S	3·3 W	0·5 N	2·6 W	0·8 S	1·0 E	0·5 N	0·4 W	0·3 S	4·4 W	0·1 N	5·1 W	0·6 S	6·5 W	1·5 S	4·5 W	0·2 S	4·4 W
14 to 15	0·8 S	7·5 W	1·1 N	7·7 W	2·0 N	**8·0** W	1·5 N	**7·9** W	0·8 S	**4·9** W	1·0 N	2·2 W	0·3 N	0·2 W	0·3 N	0·4 W	1·1 N	5·7 W	0·6 N	6·3 W	0·5 N	8·0 W	0·1 S	8·6 W	0·6 N	5·6 W
15 to 16	0·6 N	**8·7** W	2·1 N	**7·9** W	**3·0** N	7·9 W	1·8 N	7·6 W	0·1 S	4·8 W	1·0 N	**2·7** W	0·1 S	0·5 W	0·3 N	0·3 W	1·3 N	6·3 W	1·8 N	6·2 W	1·7 N	**8·8** W	0·9 N	9·8 W	1·2 N	**6·0** W
16 to 17	1·0 N	8·7 W	2·7 N	7·9 W	2·7 N	6·7 W	2·0 N	7·3 W	0·6 N	4·5 W	**1·3** N	2·0 W	0·0	0·3 E	0·2 N	0·0	1·8 N	**6·4** W	2·6 N	**6·6** W	2·8 N	8·7 W	2·3 N	**10·3** W	1·7 N	5·8 W
17 to 18	2·4 N	7·3 W	3·6 N	6·9 W	2·5 N	5·7 W	2·3 N	5·0 W	0·8 N	3·5 W	0·6 N	1·5 W	0·7 S	0·5 E	0·3 S	0·6 E	**3·3** N	3·8 W	3·6 N	5·2 W	4·0 N	8·2 W	5·3 N	8·3 W	2·3 N	4·5 W
18 to 19	4·7 N	6·0 W	4·4 N	5·0 W	2·2 N	3·0 W	**2·7** N	3·1 W	0·9 N	2·2 W	1·1 N	2·4 W	0·3 S	0·4 E	0·2 N	0·7 E	2·7 N	3·6 W	**4·3** N	4·0 W	4·3 N	6·8 W	6·7 N	8·2 W	**2·8** N	3·6 W
19 to 20	**5·2** N	5·2 W	**5·5** N	3·4 W	1·0 N	1·4 W	1·3 N	1·4 W	0·6 N	1·1 W	0·7 N	1·4 W	0·6 S	0·3 E	0·1 S	0·8 E	2·6 N	1·9 W	3·0 N	2·8 W	**4·4** N	5·5 W	**6·8** N	7·3 W	2·5 N	2·5 W
20 to 21	4·1 N	3·1 W	2·8 N	1·0 W	0·2 N	0·5 E	1·0 N	0·2 W	0·3 N	0·1 W	0·5 S	0·1 E	0·5 S	0·4 E	0·4 S	0·4 E	1·4 N	0·6 W	1·5 N	1·0 W	3·4 N	3·5 W	4·6 N	4·8 W	1·5 N	1·1 W
21 to 22	2·0 N	0·9 W	1·0 N	0·4 E	1·3 S	2·2 E	0·9 N	0·9 E	0·4 N	0·6 E	0·6 S	0·2 E	0·8 N	0·1 W	0·4 S	1·4 E	1·3 N	1·2 E	0·1 N	0·5 W	1·6 N	0·3 W	1·2 N	1·4 W	0·6 N	0·3 E
22 to 23	0·5 N	0·7 E	0·7 N	0·7 E	1·2 S	2·4 E	0·6 N	1·4 E	0·6 N	0·8 E	**1·5** S	0·2 W	0·4 N	0·3 W	**0·7** S	1·3 E	0·3 N	1·5 E	0·8 S	0·1 W	0·1 N	0·8 E	0·1 N	0·3 W	0·1 S	0·7 E
23 to 24	0·8 S	1·1 E	0·4 S	1·0 E	1·1 S	1·9 E	0·5 N	1·8 E	0·4 N	1·1 E	1·2 S	0·6 E	**1·0** S	0·1 W	0·0	**1·7** E	0·3 S	2·0 E	1·5 S	0·7 E	1·4 S	1·8 E	1·7 S	0·8 E	0·7 S	1·2 E

Aggregate and Mean Velocities and Relative Frequency of Different Winds, 1908.

TABLE VIe.—*Showing for the year 1908 the sums of the Velocities, and the Mean Velocities, in miles per hour, of the Winds which blew in each month, from each of the sixteen Principal Directions and also the number of hourly Observations which those sums comprise; the latter numbers indicating the Relative Frequency of the same Wind (as to direction) in the several months, and of different Winds during the same month.*

1908.	N.			N. N. E.			N. E.			E. N. E.			E.			E. S. E.			S. E.			S. S. E.		
Month.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.
	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.
January ...	525	69	7·6	525	92	5·7	340	48	7·1	1,041	131	7·9	271	41	6·6	234	34	6·9	29	4	7·2	57	9	6·3
February ...	488	64	7·6	465	76	6·1	236	34	6·9	506	62	8·2	125	23	5·4	124	21	5·9	5	2	2·5	10	3	3·3
March ...	630	76	8·3	171	31	5·5	122	21	5·8	178	28	6·4	83	14	6·3	35	5	7·0	6	2	3·0	16	4	4·0
April ...	241	25	9·6	201	47	4·3	73	18	4·1	38	11	3·5	15	2	7·5	11	1	11·0	62	8	7·7	162	26	6·2
May ...	1	1	1·0	31	7	4·4	4	3	1·3	0	0	0·0	8	2	4·0	0	0	0·0	19	3	6·3	0	0	0·0
June ...	0	0	0·0	6	2	3·0	20	3	6·7	40	6	6·7	22	4	5·5	267	17	15·7	81	11	7·4	969	52	18·6
July ...	0	0	0·0	0	0	0·0	0	0	0·0	12	3	4·0	0	0	0·0	0	0	0·0	0	0	0·0	6	1	6·0
August ...	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0
September ...	39	8	4·9	107	27	4·0	84	17	4·9	165	27	6·1	90	19	4·7	509	72	7·1	79	13	6·1	115	18	6·4
October ...	211	37	5·7	259	50	5·2	230	35	6·6	668	92	7·3	223	28	8·0	130	24	5·4	73	12	6·1	15	3	5·0
November ...	297	50	5·9	290	50	5·8	237	43	5·5	1,311	161	8·1	396	60	6·6	171	34	5·0	86	12	7·2	30	6	5·0
December ...	239	33	7·3	526	86	6·1	389	58	6·7	2,023	220	9·2	277	36	7·7	306	41	7·5	0	0	0·0	7	2	3·5
Year ...	2,671	363	7·4	2,581	468	5·5	1,735	280	6·2	5,982	741	8·1	1,515	229	6·6	1,787	249	7·2	440	67	6·6	1,387	124	11·2

1908.	S.			S. S. W.			S. W.			W. S. W.			W.			W. N. W.			N. W.			N. N. W.			Number of Observations.	
Month.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Calm.	Variable.
	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.		
January ...	35	5	7·0	5	1	5·0	6	1	6·0	138	20	6·9	207	24	8·6	755	88	8·6	946	78	12·1	1,143	99	11·5	0	0
February ...	2	1	2·0	4	1	4·0	0	0	0·0	23	4	5·7	171	19	9·0	663	63	10·5	2,330	172	13·5	1,783	151	11·8	0	0
March ...	26	6	4·3	54	19	2·8	19	8	2·4	75	15	5·0	386	37	10·4	1,159	107	10·8	2,996	233	12·9	1,529	138	11·1	0	0
April ...	278	25	11·1	179	29	6·2	83	13	6·4	390	54	7·2	868	95	9·1	1,801	175	10·3	1,234	105	12·7	1,019	86	11·8	0	0
May ...	0	0	0·0	371	42	8·8	335	44	7·6	1,088	152	7·2	1,699	184	9·2	2,010	220	9·1	465	66	7·0	126	20	6·3	0	0
June ...	685	38	18·0	302	32	9·4	1,349	127	10·6	1,537	164	9·4	2,261	208	10·9	383	50	7·7	20	4	5·0	8	2	4·0	0	0
July ...	9	1	9·0	49	8	6·1	781	59	13·2	7,518	447	16·8	3,983	215	18·5	109	10	10·9	0	0	0·0	0	0	0·0	0	0
August ...	0	0	0·0	60	6	10·0	235	26	9·0	7,691	499	15·4	3,343	204	16·4	107	6	17·8	30	3	10·0	0	0	0·0	0	0
September ...	76	11	6·9	62	10	6·2	62	13	4·8	243	34	7·1	1,065	128	8·3	1,729	205	8·4	486	62	7·8	356	54	6·6	2	0
October ...	4	1	4·0	15	4	3·7	11	2	5·5	92	14	6·6	188	39	4·8	736	97	7·6	1,345	143	9·4	1,280	163	7·9	0	0
November ...	0	0	0·0	0	0	0·0	0	0	0·0	46	7	6·6	127	24	5·3	945	110	8·6	1,031	92	11·2	702	71	9·9	0	0
December ...	0	0	0·0	0	0	0·0	0	0	0·0	15	3	5·0	76	10	7·6	445	53	8·4	1,152	102	11·3	1,325	100	13·2	0	0
Year ...	1,115	88	12·7	1,101	152	7·2	2,881	293	9·8	18,856	1,413	13·3	14,374	1,187	12·1	10,841	1,184	9·2	12,035	1,060	11·4	9,271	884	10·5	2	0

Velocity of Wind, 1908.

DINES' ANEMOGRAPH.

TABLE VI*f*.—*Mean Velocity of the Wind in miles per hour, for each day of Bombay civil time; also the Mean Monthly Velocity and its Variation from the mean of the year.*

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
1 ...	5·1	7·4	9·5	**3·5**	**7·7**	6·0	**4·7**	12·4	**8·0**	4·0	4·7	7·5
2 ...	4·5	7·7	5·4	5·0	5·0	5·7	9·3	12·3	5·1	4·2	3·9	7·5
3 ...	5·1	5·9	5·0	5·2	4·7	4·9	10·9	**12·5**	**2·2**	6·0	3·3	7·0
4 ...	4·5	6·9	4·7	4·5	4·8	5·2	10·4	8·5	4·2	6·2	3·7	5·8
5 ...	5·5	8·7	6·9	4·5	5·9	5·1	9·8	7·1	5·2	6·0	4·2	5·3
6 ...	6·8	7·9	7·9	5·1	7·0	5·2	11·7	8·1	5·5	4·9	3·8	4·1
7 ...	5·8	7·8	10·3	6·5	6·5	5·0	11·3	9·7	6·0	5·9	3·4	5·2
8 ...	4·1	6·9	**12·4**	5·3	6·2	5·0	9·5	9·1	4·2	5·7	4·5	6·1
9 ...	4·6	5·1	11·0	7·7	4·7	5·9	8·1	8·1	4·8	4·6	4·9	5·5
10 ...	6·7	4·3	7·5	8·6	5·2	5·5	8·8	6·6	5·9	4·6	5·8	5·2
11 ...	6·0	5·4	8·5	7·1	5·3	4·5	10·4	8·6	4·0	2·9	5·9	6·1
12 ...	**8·7**	6·5	9·3	**14·1**	5·0	**4·0**	12·5	7·8	4·1	3·7	6·9	7·9
13 ...	7·5	6·4	7·7	11·7	5·8	9·1	10·7	10·6	3·7	3·9	5·3	4·9
14 ...	7·9	5·8	6·6	7·7	5·0	13·0	10·1	10·0	3·7	6·0	**3·1**	5·2
15 ...	7·7	6·2	6·7	6·0	6·7	**21·6**	10·4	11·4	5·4	6·7	4·7	6·2
16 ...	3·9	7·2	5·8	4·8	6·0	12·8	11·8	9·6	4·5	6·5	6·0	5·8
17 ...	4·1	8·0	5·4	3·7	4·9	10·4	11·8	9·1	5·7	6·4	5·6	6·7
18 ...	4·0	**9·5**	5·0	4·1	4·6	9·6	11·6	**6·5**	4·9	5·0	7·6	7·3
19 ...	4·8	7·8	7·4	5·2	4·7	8·6	11·0	7·0	4·4	5·0	7·6	6·3
20 ...	5·0	8·9	5·0	5·0	4·8	8·3	10·2	9·7	4·0	3·3	5·7	5·3
21 ...	5·2	8·3	6·4	4·1	6·4	6·2	12·0	11·6	3·9	4·0	5·3	5·5
22 ...	**3·6**	7·5	8·2	4·3	4·5	6·8	11·8	11·0	4·6	4·4	4·7	5·9
23 ...	5·7	5·1	7·7	6·9	4·7	8·2	10·7	10·0	4·4	5·0	4·3	4·8
24 ...	7·3	**3·2**	6·2	6·2	5·1	8·7	9·2	8·4	5·4	**7·3**	4·3	**3·8**
25 ...	6·7	5·6	5·0	8·1	**3·8**	10·4	9·1	10·1	5·0	4·8	5·5	8·1
26 ...	6·1	6·5	5·2	6·3	3·8	6·4	6·4	8·8	4·5	5·8	5·5	7·0
27 ...	6·0	4·6	4·9	4·6	5·6	5·2	10·1	11·6	3·9	3·7	4·1	**9·3**
28 ...	6·2	5·1	3·6	3·7	6·0	5·0	11·4	10·2	5·0	4·7	6·3	6·7
29 ...	4·6	7·2	4·0	5·5	5·1	5·7	**14·0**	9·3	5·6	3·8	**7·7**	4·8
30 ...	4·8		**3·0**	6·5	5·7	6·5	11·3	8·2	4·3	**2·6**	6·7	5·6
31 ...	6·0		3·5		6·3		10·8	7·4		2·9		7·0
Monthly Mean ...	5·6	6·7	6·6	6·0	5·4	7·5	**10·4**	9·4	**4·7**	4·9	5·2	6·1
Annual Variation ...	−0·9	+0·2	+0·1	−0·5	−1·1	+1·0	+3·9	+2·9	−1·8	−1·6	+1·3	−0·4

TABLE VI*g*.—*Showing the Mean Diurnal inequality of the Velocity of the wind in miles per hour for each month of the year 1908, and for the whole year.*

1908. Bombay Civil Time. Hourly Intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
0 to 1 ...	**−2·6**	−1·6	−0·7	−1·5	−0·8	+0·1	+0·1	−0·4	−0·10	−1·6	−2·0	−2·5	−1·2
1 „ 2 ...	−2·0	−1·6	−0·9	−1·9	−1·1	−0·2	**+0·9**	+0·2	−0·9	−1·4	−1·8	−1·9	−1·0
2 „ 3 ...	−1·6	−1·2	−1·7	−2·1	−1·2	−0·5	+0·5	+0·3	−0·9	−1·4	−1·0	−1·1	−1·0
3 „ 4 ...	−0·7	−1·3	−1·7	−2·2	−1·5	−0·3	+0·3	0·0	−0·6	−1·5	−0·6	−0·7	−0·9
4 „ 5 ...	−0·2	−1·5	−1·5	−2·5	−1·5	−0·2	+0·4	+0·2	−0·6	−1·1	−0·4	−0·2	−0·8
5 „ 6 ...	−0·1	−1·5	−2·2	−2·6	−1·9	−0·3	0·0	+0·3	−0·7	−1·2	−0·1	+0·7	−0·8
6 „ 7 ...	−0·1	−1·7	−1·7	**−2·7**	**−2·0**	**−0·8**	+0·1	+0·3	−0·4	−0·7	+0·2	+1·3	−0·7
7 „ 8 ...	+0·2	−1·8	−2·1	−1·6	−1·9	−0·7	−0·1	+0·1	−0·2	−0·4	+0·3	+1·2	−0·6
8 „ 9 ...	+0·2	−1·7	−1·6	−1·5	−1·5	−0·4	−0·1	+0·3	0·0	−0·1	0·0	+1·0	−0·4
9 „ 10 ...	+0·1	−1·7	−1·5	−0·8	−0·9	−0·4	**−0·5**	−0·2	−0·5	−0·8	−0·7	+0·3	−0·6
10 „ 11 ...	−1·0	**−1·9**	−1·0	0·0	−0·2	−0·1	−0·2	−0·2	−0·8	−1·1	−1·8	−1·1	−0·8
11 „ 12 ...	−1·4	−1·1	+0·9	+0·9	+0·7	+0·1	0·0	+0·5	−0·3	−0·4	−1·6	−1·8	−0·3
12 „ 13 ...	−0·5	+0·5	+2·3	+2·2	+1·5	+0·2	−0·2	**+1·1**	+0·6	+0·6	−0·5	−1·7	+0·5
13 „ 14 ...	+0·5	+1·7	+3·4	+3·1	+2·1	+0·4	−0·4	+0·3	+1·2	+1·4	+0·5	−0·9	+1·1
14 „ 15 ...	+1·2	+2·6	+4·3	+3·8	+2·7	+0·6	+0·1	+0·3	+1·8	+2·2	+1·5	+0·4	+1·8
15 „ 16 ...	+1·9	**+3·4**	**+4·4**	**+4·0**	**+3·0**	**+0·7**	−0·1	+0·2	+2·4	+2·4	+2·0	+1·4	+2·1
16 „ 17 ...	+1·9	+3·3	+3·7	+3·6	+2·8	+0·7	−0·3	−0·2	**+2·6**	**+2·3**	+2·4	+1·9	**+2·1**
17 „ 18 ...	+1·9	+3·1	+3·1	+2·5	+2·2	+0·4	−0·4	−0·3	+1·7	+2·6	**+2·9**	+2·7	+1·9
18 „ 19 ...	**+2·7**	+3·0	+1·7	+1·8	+1·3	+0·2	−0·2	−0·3	+1·2	+2·4	+2·4	**+3·6**	+1·6
19 „ 20 ...	+2·5	+2·8	+0·3	+0·9	+0·5	+0·4	−0·2	−0·3	+0·5	+1·4	+2·0	+3·2	+1·2
20 „ 21 ...	+1·2	+0·7	−0·7	+0·2	0·0	0·0	−0·4	−0·4	−0·5	0·0	+0·6	+1·1	+0·1
21 „ 22 ...	−0·5	−0·7	**−2·3**	−0·4	−0·5	−0·4	−0·3	−0·7	−0·7	−1·1	−1·3	−1·4	−0·9
22 „ 23 ...	−1·2	−1·2	−2·2	−0·6	−0·6	+0·1	−0·1	−0·6	−1·5	−1·6	−1·8	−2·3	−1·1
23 „ 24 ...	−1·6	−1·4	−1·6	−1·3	−0·9	0·0	+0·2	−0·8	**−1·5**	**−2·2**	**−2·0**	**−2·6**	**−1·3**
Range ...	5·3	5·3	6·7	6·7	5·0	1·5	1·4	1·9	4·1	4·8	4·9	6·2	3·4

Miles.

The mean velocity for June to August ... ... 9·1
The mean velocity for September to May ... ... 5·7
The mean velocity for the year ... ... 6·5

Temperature of the Ground, 1908.

TABLE VIIa.—*Showing for each month the Mean Temperature of the Ground in the Thermometer Shed and its Annual Variation at the respective depths of 1, 9, 20, 60, and 132 inches below the surface.*

Month.	1 Inch.		9 Inches.		20 Inches.		60 Inches.		132 Inches.	
	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.
	°	°	°	°	°	°	°	°	°	°
January ...	76·9	−4·4	78·7	−4·1	82·7	−3·0	84·9	−1·2	84·8	−0·3
February ...	76·9	−4·4	78·5	−4·3	82·3	−3·4	84·0	−2·1	84·3	−0·8
March ...	79·1	−2·2	79·9	−2·9	83·0	−2·7	83·9	−2·2	83·9	−1·2
April ...	84·5	+3·2	84·4	+1·6	85·9	+0·2	85·0	−1·1	84·0	−1·1
May ...	86·4	+5·1	86·6	+3·8	88·3	+2·6	86·8	+0·7	84·5	−0·6
June ...	86·0	+4·7	87·3	+4·5	89·5	+3·8	88·1	+2·0	85·3	+0·2
July ...	82·4	+1·1	85·2	+2·4	88·2	+2·5	88·2	+2·1	86·1	+1·0
August ...	81·4	+0·1	83·7	+0·9	87·0	+1·3	87·3	+1·2	86·1	+1·0
September ...	82·6	+1·3	84·0	+1·2	86·5	+0·8	86·5	+0·4	85·9	+0·8
October ...	83·5	+2·2	84·7	+1·9	86·8	+1·1	86·6	+0·5	85·8	+0·7
November ...	80·0	−1·3	81·9	−0·9	85·6	−0·1	86·4	+0·3	85·3	+0·2
December ...	76·5	−4·8	78·7	−4·1	83·0	−2·7	85·3	−0·8	85·0	−0·1
Year ...	81·3		82·8		85·7		86·1		85·1	

TABLE VIIb.—*Showing for each of the five observation hours and the mean of the day, the Temperature of the Ground exposed to the direct rays of the Sun at the depths of 1 inch and 8 inches below the surface.*

Depth from Surface.	1 Inch.						8 Inches.					
Month.	Observation Hours.					Mean of five observation hours.	Observation Hours.					Mean of five observation hours.
	6	10	14	16	22		6	10	14	16	22	
	°	°	°	°	°	°	°	°	°	°	°	°
January ...	72·9	84·1	105·3	101·7	81·3	89·1	79·0	78·3	79·2	79·7	80·4	79·3
February ...	73·7	86·9	108·8	106·8	82·4	91·7	80·8	80·1	80·8	81·9	82·5	81·2
March ...	77·9	94·0	113·3	111·7	87·0	96·8	85·8	84·9	85·9	87·5	88·5	86·5
April ...	86·0	103·1	120·7	119·0	94·6	104·7	94·1	92·8	94·7	96·4	97·4	95·1
May ...	89·8	108·1	124·0	121·8	97·8	108·3	99·1	98·2	100·0	101·7	102·5	100·3
June ...	86·0	96·5	105·8	103·2	89·7	96·2	93·5	92·7	94·1	95·0	95·5	94·2
July ...	79·7	84·5	88·3	87·4	81·8	84·3	83·3	82·7	83·6	84·2	84·0	83·6
August ...	79·4	84·8	88·3	87·0	81·5	84·2	83·1	82·8	83·8	84·5	84·6	83·8
September ...	80·4	89·0	97·6	95·9	83·5	89·3	84·6	84·0	85·5	86·5	86·7	85·5
October ...	82·5	95·7	107·4	103·2	88·3	95·4	87·3	86·7	88·2	89·5	89·9	88·3
November ...	76·6	91·8	108·3	101·6	83·8	92·4	82·4	81·6	82·5	83·1	83·9	82·7
December ...	70·8	84·6	103·7	95·8	79·7	86·9	77·7	77·1	77·9	78·7	79·2	78·1
Year ...	79·6	91·9	106·0	102·9	85·9	93·3	85·9	85·2	86·3	87·4	87·9	86·5

Maxima and Minima of different Meteorological Elements, 1908.

TABLE VIII.—*Showing the individual observations in each month of the year, indicating the greatest and the least values of the following elements, viz., Height of Barometer (corrected for Temperature); Temperature of Air; Pressure of Vapour; Additional Capacity of Air; and Ground Temperatures 1 inch and 8 inches below the surface (exposed to solar rays).*

1908.	Height of Barometer.			Temperature of Air.			Pressure of Vapour.			Additional Capacity.			Ground Thermometer 1 inch deep.			Ground Thermometer 8 inches deep.		
Month.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest	Least.	Range.
	In.	In.	In.	°	°	°	In.	In.	In.	In.	In.	In.	°	°	°	°	°	°
January ...	30·113	29·733	0·380	85·5	63·2	22·3	0·785	0·319	0·466	0·771	0·058	0·713	109·2	66·0	43·2	82·4	75·7	6·7
February ...	·090	·736	·354	89·2	61·2	28·0	·814	·265	·549	·863	·063	·800	112·8	66·4	46·4	85·1	76·5	8·6
March ...	·049	·708	·341	87·0	65·0	22·0	·954	·302	·652	·601	·040	·561	120·9	69·9	51·0	94·9	80·7	14·2
April ...	29·932	·681	·251	98·7	75·8	22·9	1·040	·368	·672	1·434	·095	1·339	124·6	81·8	42·8	100·1	81·0	19·1
May ...	·928	·676	·252	90·6	79·1	11·5	0·972	·774	·198	0·526	·131	0·395	126·8	88·3	38·5	104·1	95·9	8·2
June ...	·841	·545	·296	91·5	76·3	15·2	1·024	·814	·210	·549	·042	·507	128·3	77·8	50·5	106·7	82·6	24·1
July ...	·801	·481	·320	85·3	75·7	9·6	0·980	·805	·175	·277	·033	·244	99·9	76·8	23·1	86·4	79·8	6·6
August ...	·817	·545	·272	83·4	75·8	7·6	·952	·779	·173	·286	·050	·236	94·3	77·8	16·5	87·0	81·0	6·0
September ..	·887	·660	·227	87·9	75·1	12·8	1·043	·771	·272	·406	·029	·377	109·4	77·8	31·6	90·2	81·9	8·3
October	·961	·688	·273	91·3	72·9	18·4	·008	·586	·422	·882	·054	·828	110·7	79·8	30·9	91·6	85·8	5·8
November	30·088	·652	·436	86·5	69·0	17·5	0·962	·369	·593	·834	·057	·777	111·8	72·4	39·4	88·0	78·5	9·5
December ...	·116	·818	·298	84·8	65·4	19·4	·725	·306	419	·791	·053	·738	106·7	68·3	38·4	80·8	75·5	5·3
Year ...	30·116	29·481	0·635	98·7	61·2	37·5	1·043	0·265	0·778	1·434	0 029	1·405	128·3	66·0	62·3	106·7	75·5	31·2

Extent of the Cloudy Sky, 1908.

TABLE IX.—*Means of estimations made at 6, 10, 14, 16 and 22 hours daily, the whole Sky being reckoned as 10·0.*

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	...	4·8	0·8	2·8	...	3·6	10·0	10·0	8·0	2·6	1·2	...
2 ...	...	3·6	0·6	2·4	3·4	2·6	10·0	10·0	4·0	...	4·2	...
3 ...	1·2	1·4	...	1·6	2·2	4·0	8·2	10·0	9·8	1·2	0·6	...
4 ...	3·0	1·4	...	0·6	1·2	2·8	10·0	9·4	9·8	2·4	0·4	...
5 ...	6·0	...	...	0·2	1·4	2·8	10·0	9·8	7·4	3·4	1·4	...
6 ...	0·2	...	...	...	2·2	2·4	10·0	8·8	9·8	2·0	0·6	0·2
7 ...	...	...	...	0·2	4·0	3·2	10·0	9·6	10·0	...	0·6	...
8 ...	2·0	...	0·4	...	2·4	3·8	9·4	9·2	10·0	...	...	...
9 ...	1·6	...	...	3·6	3·0	3·4	9·0	9·8	10·0	...	...	...
10 ...	3·4	...	...	1·6	3·2	6·6	10·0	8·8	7·0	1·4	...	...
11 ...	3·0	...	0·6	4·0	4·2	8·2	10·0	9·8	4·6	5·8	...	...
12 ...	...	...	...	0·4	3·6	9·6	10·0	8·0	8·8	1·2	...	...
13 ...	...	...	...	1·6	2·0	9·8	9·2	9·0	5·4	1·8	1·0	...
14 ...	3·6	...	...	...	1·0	8·4	9·6	7·2	8·0	1·6	4·0	...
15 ...	0·6	...	...	1·0	2·6	8·8	9·8	10·0	8·8	...	1·6	1·4
16 ...	4·0	...	1·8	6·2	2·8	8·6	9·8	10·0	9·4	4·8	...	0·2
17 ...	...	...	0·8	1·6	5·6	10·0	9·2	10·0	8·6	2·4	...	1·6
18 ...	0·4	...	...	1·6	4·0	9·0	10·0	8·2	10·0	8·0	...	2·6
19 ...	...	...	...	2·2	1·4	7·6	9·6	10·0	8·6	5·0	...	1·0
20 ...	0·4	...	5·6	1·8	0·6	8·2	9·6	8·2	8·0	2·4	...	3·4
21 ...	2·6	0·8	5·8	0·6	3·2	6·6	9·2	10·0	8·4	4·4	...	...
22 ...	...	0·6	4·4	0·4	2·6	10·0	9·8	9·2	6·8	1·2	...	...
23 ...	...	...	1·4	0·2	1·4	6·8	9·0	9·0	7·0	3·4	...	...
24 ...	...	...	1·2	2·2	1·6	6·0	9·4	8·0	5·4	1·6	...	0·6
25 ...	...	...	1·2	0·2	3·8	9·4	10·0	10·0	3·0	9·6	...	...
26 ...	...	...	0·4	...	2·4	9·6	10·0	10·0	2·4	8·2	...	...
27 ...	...	2·0	0·2	1·4	2·4	6·6	9·2	10·0	4·6	3·2	2·0	0·2
28 ...	...	1·8	0·2	0·6	4·2	8·8	10·0	10·0	5·2	7·2	0·6	2·2
29 ...	...	1·2	2·6	1·6	4·0	10·0	10·0	9·8	4·2	6·6	...	0·2
30 ...	...		1·4	...	4·4	10·0	10·0	9·6	2·2	3·0	...	...
31 ...	4·4		3·4		5·0		9·4	7·8		2·8		...
Monthly Mean.	1·2	0·6	1·1	1·4	2·8	6·9	9·7	9·3	7·2	3·1	0·6	0·4
Annual Variation ...	−2·5	−3·1	−2·6	−2·3	−0·9	+3·2	+6·0	+5·6	+3·5	−0·6	−3·1	−3·3

For the days which have no entry, 0·0 is to be understood.

Mean of the months, from January to April, November and December ... ... 0·9

Mean of the months from May to October ... ... 6·5

Mean for the year ... ... 3·7

Meteorological Data, 1908.

Table X.—Five-day Means of different Meteorological Elements

Number of Five-day Period.	Barometric Pressure.	Temperature of the Air.	Pressure of Vapour.	Additional Capacity of the Air.	* Rainfall.	North or South Component of Wind.	East or West Component of Wind.	Number of Five day Period.	Barometric Pressure.	Temperature of the Air.	Pressure of Vapour.	Additional Capacity of the Air.	* Rainfall.	North or South Component of Wind.	East or West Component of Wind.
	In.	°	In.	In.	In.	Miles.	Miles.		In.	°	In.	In.	In.	Miles.	Miles.
1 ...	30·008	75·2	0·593	0·291	...	4·2 N	1·6 E	38 ...	29·698	80·7	0·914	0·135	4·52	6·7 S	14·4 W
2 ...	29·995	75·1	·611	·266	0·08	2·7 N	1·6 E	39 ...	·693	80·4	·903	·134	3·33	4·1 S	16·4 W
3 ...	·963	71·5	·491	·287	0·01	8·4 N	0·8 W	40 ...	·662	81·2	·900	·168	0·77	3·7 S	17·4 W
4 ...	·973	75·0	·670	·204	...	2·9 N	0·2 W	41 ...	·648	80·7	·890	·160	0·98	3·2 S	16·9 W
5 ...	·961	74·7	·625	·241	...	5·6 N	1·4 W	42 ...	·650	79·8	·897	·120	3·30	3·4 S	15·8 W
6 ...	·915	73·8	·627	·211	...	5·5 N	2·4 W	43 ...	·628	79·4	·880	·126	2·26	6·1 S	18·4 W
7 ...	·877	70·9	·527	·236	0·07	5·3 N	3·6 W	44 ...	·675	79·9	·889	·132	1·62	5·5 S	13·0 W
8 ...	·987	74·2	·534	·328	...	6·6 N	0·6 E	45 ...	·706	79·6	·879	·132	1·31	4·0 S	12·8 W
9 ...	·938	74·4	·628	·227	...	5·9 N	3·0 W	46 ...	·719	79·2	·869	·130	2·80	4·0 S	14·1 W
10 ...	·869	75·6	·673	·216	...	8·8 N	4·9 W	47 ...	·680	79·1	·870	·125	1·44	4·4 S	15·1 W
11 ...	·818	75·3	·558	·324	...	7·1 N	2·9 W	48 ...	·731	79·4	·859	·144	0·82	4·3 S	15·1 W
12 ...	·833	74·8	·591	·277	...	5·8 N	3·3 W	49 ...	·756	79·9	·867	·154	0·69	0·1 S	11·9 W
13 ...	·849	74·3	·628	·226	...	6·5 N	4·7 W	50 ...	·753	79·4	·857	·147	0·50	1·6 N	5·8 W
14 ...	·903	75·1	·513	·360	...	12·2 N	6·5 W	51 ...	·816	79·1	·844	·154	0·33	0·1 S	0·9 W
15 ...	·910	75·0	·592	·279	...	8·1 N	5·1 W	52 ...	·805	80·5	·897	·146	0·30	3·9 N	3·6 W
16 ...	·908	76·6	·719	·199	...	5·3 N	5·0 W	53 ...	·787	79·6	·910	·102	4·63	2·2 N	2·2 W
17 ...	·892	77·2	·737	·199	0·06	5·6 N	6·0 W	54 ...	·737	81·6	·938	·146	0·35	0·3 S	0·0
18 ...	·832	81·1	·839	·226	...	0·2 N	4·0 W	55 ...	·771	82·2	·863	·240	...	1·0 N	4·8 W
19 ...	·779	81·0	·822	·240	...	2·4 N	5·2 W	56 ...	·839	81·6	·872	·208	...	1·2 N	1·9 W
20 ...	·759	81·1	·771	·296	...	5·8 N	6·6 W	57 ...	·852	79·7	·879	·136	...	4·5 N	2·8 W
21 ...	·805	82·0	·658	·445	...	9·2 N	5·7 W	58 ...	·863	81·4	·874	·201	...	6·3 N	2·4 W
22 ...	·824	82·7	·909	·212	...	1·3 S	4·3 W	59 ...	·866	80·5	·885	·159	0·26	3·6 N	2·8 W
23 ...	·790	84·1	·890	·286	...	1·0 S	4·9 W	60 ...	·779	82·3	·811	·296	...	3·6 N	1·4 E
24 ...	·789	82·6	·837	·280	...	2·7 N	6·5 W	61 ...	·770	81·6	·921	·159	0·36	2·0 N	1·5 W
25 ...	·808	83·0	·866	·267	...	2·6 N	7·0 W	62 ...	·773	80·0	·819	·209	...	3·5 N	1·9 W
26 ...	·770	83·3	·860	·284	...	2·0 N	8·3 W	63 ...	·909	78·4	·782	·194	...	3·5 N	1·5 W
27 ...	·834	84·2	·833	·341	...	1·4 N	8·5 W	64 ...	·916	78·1	·688	·279	...	4·0 N	0·6 W
28 ...	·826	83·7	·841	·317	...	2·2 N	7·2 W	65 ...	·944	75·8	·553	·345	...	5·1 N	1·8 E
29 ...	·789	84·0	·857	·312	...	1·5 S	5·4 W	66 ...	·948	75·3	·606	·277	...	3·0 N	1·6 E
30 ...	·761	85·5	·895	·333	...	4·4 S	5·8 W	67 ...	·962	76·4	·590	·326	...	4·9 N	2·9 E
31 ...	·780	85·7	·885	·349	...	1·8 S	7·7 W	68 ...	·955	74·4	·559	·300	...	4·3 N	2·5 E
32 ...	·761	86·4	·903	·358	...	1·1 S	7·4 W	69 ...	·984	74·2	·595	·258	...	4·9 N	1·1 E
33 ...	·670	84·0	·940	·234	2·20	4·4 S	1·0 W	70 ...	·992	74·6	·560	·302	...	4·4 N	1·7 E
34 ...	·611	82·9	·954	·174	3·85	13·6 S	5·0 W	71 ...	·930	73·4	·581	·249	...	5·0 N	1·8 E
35 ...	·686	83·1	·940	·196	4·40	4·4 S	7·3 W	72 ...	·914	72·2	·561	·233	...	6·3 N	1·6 W
36 ...	·648	83·1	·927	·209	0·74	2·4 S	8·5 W	73 ...	·902	74·1	·541	·306	...	6·0 N	2·5 E
37 ...	·591	79·8	·910	·110	11·56	5·6 S	10·3 W								

* Five-day sums *not means*.

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Barometric Pressure, 1909.

TABLE Ia.—*Daily and Monthly Means.*

Height of the Barometer above mean sea-level = 37 feet.

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1	29·879	29·924	29·837	29·804	29·702	29·639	29·651	29·681	29·736	29·821	29·855	29·943
2	·814	·930	·851	·811	·712	·615	·579	·615	·748	·883	·872	·917
3	·824	·945	·861	·833	·732	·577	·592	·643	·736	·868	·867	·857
4	·851	·905	·865	·851	·742	·566	·622	·699	·670	·822	·864	·788
5	·882	·921	·850	·853	·711	·540	·622	·736	·604	·815	·850	·796
6	·893	·946	·857	·832	·661	·510	·626	·716	·623	·819	·846	·840
7	·892	·973	·870	·796	·663	·557	·609	·751	·664	·824	·826	·890
8	·914	·977	·820	·782	·619	·640	·594	·760	·714	·822	·852	·819
9	·893	·941	·807	·801	·654	·665	·611	·791	·783	·807	·918	·894
10	·921	·910	·812	·837	·765	·619	·632	·844	·800	·789	·954	·890
11	·906	·944	·806	·837	·803	·571	·604	·817	·810	·814	·915	·881
12	·994	·917	·785	·836	·792	·602	·567	·790	·791	·850	·912	·888
13	·938	·889	·812	·809	·768	·654	·561	·805	·773	·841	·928	·911
14	·926	·886	·871	·831	·754	·729	·583	·846	·788	·810	·920	·951
15	·967	·887	·852	·875	·778	·767	·621	·833	·819	·794	·885	·965
16	·962	·901	·841	·835	·804	·793	·629	·813	·822	·801	·874	·956
17	·904	·882	·839	·785	·812	·812	·658	·802	·836	·797	·892	·939
18	·879	·868	·830	·760	·815	·796	·730	·796	·820	·771	·898	·932
19	·907	·865	·842	·751	·788	·777	·742	·799	·755	·782	·865	·933
20	·935	·912	·854	·712	·790	·760	·735	·755	·738	·801	·818	·952
21	·934	·890	·832	·748	·778	·711	·768	·707	·743	·853	·842	·966
22	·936	·866	·837	·821	·814	·673	·788	·703	·749	·897	·881	·963
23	·926	·900	·866	·808	·862	·623	·755	·695	·772	·900	·912	·934
24	·923	·881	·845	·788	·828	·591	·653	·719	·803	·904	·914	·964
25	·944	·865	·850	·805	·782	·589	·593	·738	·799	·910	·916	·953
26	·927	·873	·915	·807	·745	·558	·607	·733	·805	·896	·906	·956
27	·981	·880	·912	·806	·744	·555	·709	·743	·845	·876	·900	·926
28	·954	·870	·859	·808	·781	·576	·722	·738	·848	·826	·879	·967
29	·896		·831	·769	·784	·625	·650	·726	·772	·842	·901	30·003
30	·898		·825	·709	·751	·682	·642	·723	·745	·869	·943	29·964
31	·901		·835		·694		·679	·738		·849		·910
Monthly Mean	29·916	29·906	29·844	29·803	29·756	29·646	29·650	29·750	29·764	29·837	29·887	29·921
Annual Variation.	+·109	+·099	+·037	−·004	−·051	−·161	−·157	−·057	−·043	+·030	+·080	+·114

Annual mean ... ... In. 29·807

TABLE Ib.—*Showing the mean diurnal inequality of the Barometric Pressure for each month of the year 1909, and for the whole year.*

Unity = 0·001 inch.

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 7 ...	+ 9	+ 6	+ 5	+ 10	+ 6	+ 7	+ 7	+ 8	+ 3	0	+ 1	+ 5	+ 6
1 7 ...	− 2	− 7	− 9	− 3	− 11	− 11	− 11	− 8	− 12	− 16	− 13	− 7	− 9
2 7 ...	− 16	− 18	− 20	− 17	− 20	− 23	− 24	− 24	− 28	− 25	− 21	− 19	− 21
3 7 ...	− 24	− 25	− 25	− 23	− 23	− 29	− 31	− 30	− 33	− 26	− 24	− 26	− 27
4 7 ...	− 25	− 24	− 24	− 20	− 17	− 28	− 31	− 28	− 28	− 21	− 21	− 23	− 24
5 7 ...	− 16	− 12	− 13	− 9	− 6	− 21	− 25	− 21	− 17	− 6	− 10	− 13	− 14
6 7 ...	0	+ 7	+ 7	+ 10	+ 13	− 4	− 9	− 6	− 2	+ 12	+ 10	+ 5	+ 4
7 7 ...	+ 22	+ 28	+ 28	+ 29	+ 34	+ 14	+ 7	+ 13	+ 17	+ 33	+ 31	+ 25	+ 23
8 7 ...	+ 47	+ 48	+ 50	+ 48	+ 47	+ 27	+ 22	+ 28	+ 38	+ 52	+ 50	+ 47	+ 42
9 7 ...	+ 65	+ 65	+ 63	+ 39	+ 55	+ 37	+ 32	+ 38	+ 45	+ 62	+ 64	+ 61	+ 52
10 7 ...	+ 63	+ 64	+ 66	+ 57	+ 52	+ 37	+ 37	+ 40	+ 42	+ 58	+ 55	+ 57	+ 52
11 7 ...	+ 44	+ 47	+ 52	+ 45	+ 42	+ 31	+ 33	+ 34	+ 35	+ 37	+ 34	+ 38	+ 39
12 7 ...	+ 13	+ 20	+ 28	+ 24	+ 25	+ 17	+ 22	+ 18	+ 14	+ 8	+ 3	+ 4	+ 16
13 7 ...	− 20	− 11	0	− 5	− 1	+ 5	+ 8	0	− 11	− 19	− 27	− 25	− 9
14 7 ...	− 44	− 38	− 26	− 31	− 27	− 13	− 10	− 18	− 31	− 40	− 47	− 45	− 31
15 7 ...	− 55	− 51	− 46	− 49	− 47	− 29	− 25	− 31	− 41	− 51	− 54	− 53	− 44
16 7 ...	− 54	− 51	− 51	− 55	− 57	− 39	− 35	− 39	− 42	− 47	− 51	− 53	− 48
17 7 ...	− 45	− 45	− 48	− 51	− 53	− 36	− 33	− 35	− 32	− 38	− 39	− 41	− 41
18 7 ...	− 31	− 34	− 40	− 39	− 41	− 24	− 21	− 22	− 17	− 25	− 24	− 25	− 29
19 7 ...	− 9	− 17	− 26	− 21	− 23	− 6	− 3	− 5	+ 2	− 5	− 3	− 2	− 10
20 7 ...	+ 12	+ 3	− 7	− 3	− 4	+ 9	+ 12	+ 11	+ 18	+ 14	+ 15	+ 15	+ 8
21 7 ...	+ 25	+ 15	+ 8	+ 15	+ 11	+ 19	+ 23	+ 24	+ 29	+ 21	+ 24	+ 26	+ 20
22 7 ...	+ 25	+ 20	+ 14	+ 22	+ 20	+ 27	+ 29	+ 29	+ 27	+ 19	+ 25	+ 24	+ 23
23 7 ...	+ 18	+ 12	+ 11	+ 18	+ 18	+ 23	+ 24	+ 22	+ 18	+ 13	+ 17	+ 15	+ 17
Range ...	120	116	117	112	112	76	72	79	87	113	118	114	100

Temperature of the Air, 1909.

TABLE IIa.—*Daily and Monthly Means.*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1 ...	72·5	**70·0**	78·3	79·8	84·8	86·9	80·0	**77·6**	79·2	79·5	80·5	76·0
2 ...	73·8	70·5	79·6	79·7	84·5	**87·2**	81·2	77·8	80·3	80·2	80·1	74·7
3 ...	73·7	71·8	79·0	79·7	84·4	86·4	**82·7**	79·2	80·5	80·8	79·5	74·5
4 ...	74·1	70·6	78·9	**79·1**	84·2	81·1	81·8	80·0	80·7	81·2	80·1	75·2
5 ...	**75·1**	70·8	76·4	79·6	83·9	85·7	80·1	79·4	78·1	81·0	**80·9**	75·7
6 ...	73·9	72·4	**75·8**	80·3	**83·3**	86·6	81·0	80·2	77·8	80·7	80·5	75·4
7 ...	74·0	73·1	76·4	80·4	84·3	85·9	79·7	80·9	78·7	80·6	80·1	74·4
8 ...	74·0	72·6	77·3	80·5	84·6	82·8	79·0	81·2	79·6	79·8	80·3	74·5
9 ...	73·3	73·5	78·1	80·4	85·5	82·2	77·8	81·5	80·3	79·4	79·6	74·8
10 ...	72·5	72·4	79·1	79·1	85·0	80·6	78·6	81·5	79·9	80·2	80·6	74·5
11 ...	69·4	73·5	78·6	79·6	84·6	84·5	79·4	81·4	80·5	80·7	78·7	74·8
12 ...	**67·6**	74·2	78·2	79·7	84·8	84·7	79·5	81·1	**80·8**	81·3	77·9	74·5
13 ...	69·6	73·9	78·4	80·8	84·6	84·2	78·4	81·3	80·8	81·5	77·8	75·7
14 ...	70·4	73·7	78·0	81·2	85·2	84·6	78·9	**81·7**	79·7	**82·0**	77·9	75·2
15 ...	73·5	74·8	79·0	80·4	85·2	84·4	80·5	81·1	79·4	81·9	77·6	72·5
16 ...	71·7	74·3	79·3	79·9	85·6	84·3	80·6	80·8	78·7	80·9	77·1	**72·1**
17 ...	71·3	74·8	79·2	81·6	85·5	84·0	79·8	80·8	80·0	80·3	78·1	74·5
18 ...	71·3	75·7	79·4	82·9	85·3	84·1	80·6	80·6	80·2	79·8	78·1	76·1
19 ...	72·1	76·7	79·3	82·8	84·9	84·2	80·7	81·0	79·5	80·8	77·6	74·6
20 ...	72·6	75·2	78·5	82·9	84·8	84·6	79·9	79·6	78·1	80·7	77·4	73·9
21 ...	72·3	73·5	78·2	83·1	85·1	84·2	80·7	79·0	77·5	80·0	77·8	76·3
22 ...	72·2	73·7	77·9	82·0	85·9	80·3	79·8	78·2	78·6	79·6	78·3	75·9
23 ...	73·4	74·2	77·1	81·9	85·5	82·2	79·9	79·2	78·2	79·3	77·7	75·5
24 ...	73·3	74·1	78·7	82·5	85·7	82·0	80·9	79·9	**75·4**	78·7	76·0	75·4
25 ...	72·5	74·1	80·6	82·0	85·7	81·4	81·3	80·0	76·4	78·5	76·1	74·3
26 ...	71·9	75·4	**80·7**	81·9	86·2	80·9	80·2	81·2	77·0	**75·0**	76·6	73·2
27 ...	71·2	77·1	79·5	82·5	86·4	**79·1**	81·0	81·5	78·7	78·6	**75·6**	73·9
28 ...	70·0	**77·4**	80·0	83·0	86·7	80·2	80·4	81·2	80·2	78·7	76·6	**77·1**
29 ...	69·5		80·7	83·0	86·6	80·5	78·6	81·1	79·5	79·8	80·1	77·0
30 ...	69·0		80·2	**84·6**	86·5	82·0	**77·0**	79·0	79·0	79·8	79·6	77·0
31 ...	69·1		79·9		**86·8**		77·2	78·8		79·9		76·4
Monthly Mean ...	**71·9**	73·7	78·7	81·2	**85·2**	83·4	79·9	80·3	79·1	80·1	78·5	75·0
Annual Variation.	−7·0	−5·2	−0·2	+2·3	+6·3	+4·5	+1·0	+1·4	+0·2	+1·2	−0·4	−3·9

Annual mean ... ... 78·9

TABLE IIb.—*Showing the mean diurnal inequality of the Temperature of the Air for each month of the year 1909, and for the whole year.*

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.	°	°	°	°	°	°	°	°	°	°	°	°	°
0 2 ...	−1·8	−2·1	−1·8	−2·2	−2·0	−0·7	−0·6	−1·0	−0·7	−1·8	−2·2	−2·1	−1·6
1 2 ...	−2·0	−2·7	−2·4	−2·5	−2·3	−1·1	−0·7	−1·1	−1·0	−2·0	−2·6	−2·5	−1·9
2 2 ...	−2·2	−2·9	−2·8	−2·7	−2·6	−1·1	−0·7	−1·3	−1·1	−2·2	−3·0	−2·6	−2·1
3 2 ..	−2·8	−3·2	−3·2	−3·0	−2·7	−1·3	−0·7	−1·7	−1·3	−2·5	−3·6	−2·8	−2·4
4 2 ...	−3·3	−3·5	−3·6	−3·3	−2·9	−1·2	−0·6	−1·7	−1·4	−2·8	−3·8	−3·2	−2·6
5 2 ...	−3·9	−4·0	−4·0	−3·7	**−3·2**	−1·5	−0·7	**−2·1**	−1·9	−3·2	−4·5	−3·6	−3·0
6 2 ...	−4·0	−4·4	**−4·3**	**−3·8**	−2·9	**−1·6**	**−0·9**	−1·9	**−2·0**	**−3·6**	**−4·8**	**−3·9**	**−3·2**
7 2 ...	**−4·4**	**−4·6**	−4·0	−2·7	−1·9	−1·2	−0·6	−1·8	−1·8	−2·9	−4·3	−3·9	−2·8
8 2 ...	−2·8	−2·9	−1·8	−0·8	−0·4	−0·3	−0·2	−0·8	−1·1	−1·5	−2·9	−2·6	−1·5
9 2 ...	−0·9	−1·0	+0·2	+0·6	+0·9	+0·3	+0·2	−0·2	−0·4	−0·3	−1·3	−1·1	−0·2
10 2 ...	+1·3	+1·3	+2·2	+2·2	+2·3	+1·1	+0·8	+0·5	+0·7	+1·3	+1·0	+1·1	+1·3
11 2 ...	+2·9	+3·2	+3·4	+3·2	+3·0	+1·5	+0·7	+1·2	+1·3	+2·6	+3·3	+3·0	+2·4
12 2 ...	+4·0	+4·5	+4·3	+4·2	+3·8	+2·0	+1·1	+2·0	+1·8	+3·5	+5·3	+4·5	+3·4
13 2 ...	+4·5	+4·9	+4·6	+4·6	+4·0	+2·1	+1·4	+2·5	+1·9	+3·9	+5·7	+5·0	+3·8
14 2 ...	**+4·7**	**+5·1**	**+4·9**	**+4·8**	**+4·1**	**+2·4**	**+1·5**	**+2·7**	**+2·3**	**+4·2**	**+5·8**	**+5·2**	**+4·0**
15 2 ...	+4·4	+5·1	+4·5	+4·4	+3·9	+2·0	+1·2	+2·2	+2·3	+4·2	+5·5	+4·7	+3·7
16 2 ...	+3·7	+4·5	+3·8	+3·8	+3·2	+1·4	+0·8	+2·0	+1·8	+3·6	+4·7	+3·9	+3·1
17 2 ...	+2·3	+3·1	+2·6	+2·4	+2·0	+0·8	+0·3	+1·3	+1·3	+2·1	+2·8	+2·3	+1·9
18 2 ...	+1·1	+1·4	+1·0	+0·5	+0·4	+0·1	−0·1	+0·5	+0·6	+0·9	+1·6	+1·1	+0·8
19 2 ...	+0·7	+0·6	+0·2	−0·6	−0·6	−0·5	−0·3	0·0	+0·2	+0·3	+0·8	+0·6	+0·1
20 2 ...	+0·5	+0·3	−0·1	−0·9	−1·0	−0·5	−0·4	−0·3	0·0	0·0	+0·3	+0·2	−0·2
21 2 ...	0·0	−0·2	−0·6	−1·3	−1·3	−0·9	−0·6	−0·5	−0·3	−0·5	−0·7	−0·2	−0·6
22 2 ..	−0·5	−0·9	−0·9	−1·5	−1·5	−0·9	−0·3	−0·5	−0·4	−0·8	−1·4	−0·8	−0·9
23 2 ...	−1·5	−1·5	−1·5	−1·8	−1·7	−0·9	−0·5	−0·9	−0·7	−1·4	−2·1	−1·6	−1·3
Range ...	9·1	9·7	9·2	8·6	7·3	4·0	2·4	4·8	4·3	7·8	10·6	9·1	7·2

Temperature of the Air, 1909.

TABLE IIc.—*Showing the Maximum Temperature of the air on each day during the year 1909.*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1 ...	81·3	78·6	87·4	88·7	90·8	94·2	83·1	**79·0**	83·6	85·2	88·1	85·4
2 ...	**83·3**	79·0	88·1	**87·2**	91·4	**95·4**	84·1	79·0	85·6	**85·1**	86·7	83·6
3 ...	81·3	80·1	86·9	88·1	91·4	94·6	**86·8**	83·1	**87·2**	87·1	87·8	84·1
4 ...	82·1	79·2	87·5	87·3	91·7	82·3	86·1	84·6	87·0	87·1	87·5	84·6
5 ...	81·8	**78·0**	**84·1**	87·7	92·3	92·2	84·1	83·2	81·1	87·1	90·4	84·4
6 ...	82·1	85·1	84·1	88·2	90·3	92·2	85·3	86·1	80·9	87·6	89·1	84·7
7 ...	83·0	83·3	84·8	88·7	91·8	91·3	83·9	85·7	82·0	87·3	88·4	83·1
8 ...	82·1	81·9	84·8	88·2	90·9	88·6	81·7	86·1	83·5	86·3	90·7	82·7
9 ...	81·6	83·1	86·3	88·4	91·0	87·1	80·5	86·3	85·8	86·6	87·1	82·5
10 ...	80·0	81·9	88·3	87·9	**90·2**	82·1	81·1	87·3	86·1	87·8	**91·2**	82·9
11 ...	76·3	82·5	87·5	87·6	90·2	88·3	82·9	86·4	86·2	88·7	89·9	83·6
12 ...	**76·0**	84·1	87·1	87·8	91·0	87·2	81·9	86·1	86·1	89·2	88·1	**80·9**
13 ...	79·0	82·1	85·8	87·8	91·3	86·9	80·1	86·8	86·1	91·3	87·1	82·9
14 ...	79·0	82·1	85·1	89·5	92·0	89·3	82·1	**88·0**	84·2	91·3	87·6	82·3
15 ...	79·0	83·2	86·3	88·6	91·3	88·9	84·0	86·4	85·1	**91·7**	87·2	82·2
16 ...	79·0	83·5	86·0	87·3	91·8	88·2	83·5	87·1	80·8	90·3	86·9	81·1
17 ...	78·0	83·5	85·7	87·4	92·4	88·9	81·5	87·1	85·5	89·2	87·5	83·9
18 ...	79·4	84·1	87·8	89·1	92·6	88·1	84·9	85·3	85·9	88·9	86·7	84·1
19 ...	81·4	85·1	86·7	89·1	92·4	88·1	85·0	87·1	85·1	89·1	86·1	82·9
20 ...	80·5	84·9	86·7	89·5	92·3	89·1	83·1	85·1	84·1	89·9	87·1	82·1
21 ...	80·5	82·3	85·9	89·1	91·9	89·1	85·1	83·1	81·7	88·5	86·1	85·1
22 ...	81·1	82·3	85·9	89·6	93·0	81·9	84·2	82·1	82·6	87·9	87·0	83·9
23 ...	81·9	82·8	86·0	90·4	93·4	87·3	83·1	81·7	82·1	88·0	87·1	83·9
24 ...	81·2	82·8	88·4	91·0	93·0	87·1	85·9	85·1	**77·2**	87·8	85·1	83·1
25 ...	80·9	83·0	89·2	89·1	93·2	86·0	86·4	85·1	78·6	87·1	85·1	82·2
26 ...	79·0	85·3	**91·7**	89·9	93·2	86·7	83·1	86·8	80·5	86·6	86·0	81·9
27 ...	82·0	86·0	87·9	89·2	93·7	**81·9**	85·7	87·1	83·8	87·0	**84·6**	85·0
28 ...	80·7	**86·2**	88·1	89·9	92·8	83·0	83·6	87·5	84·2	86·9	88·1	**88·1**
29 ...	78·7		90·0	90·6	94·2	84·9	81·1	86·4	84·0	88·0	88·1	85·1
30 ...	78·8		88·5	**94·0**	94·1	86·7	80·1	83·3	84·9	86·9	89·1	87·1
31 ...	78·5		89·1		**94·6**		**83·1**	84·6		88·1		84·9
Monthly Mean.	**80·2**	82·7	87·0	88·9	**92·1**	87·9	83·4	85·1	83·7	88·1	87·6	83·7

Annual mean ... ... 85·9
The greatest maximum temperature recorded during the year (that of 2nd June) was ... 95·4

TABLE IId.—*Showing the Minimum Temperature of the air on each day during the year 1909.*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1 ...	65·3	**65·1**	71·3	74·7	81·4	83·5	77·8	**74·8**	76·8	74·9	**77·2**	72·3
2 ...	67·8	65·3	73·3	75·3	**79·4**	**84·3**	76·8	75·6	77·0	77·4	77·0	69·1
3 ...	68·3	66·3	74·4	73·3	79·6	81·6	**80·4**	76·6	**78·4**	77·6	75·4	69·3
4 ...	68·4	65·5	73·5	**73·3**	80·2	**74·4**	80·4	76·6	77·4	**78·6**	73·6	67·8
5 ...	**72·3**	66·3	73·0	74·4	80·4	81·6	77·4	76·4	77·2	77·5	74·6	69·9
6 ...	68·8	67·1	70·8	76·2	80·5	82·9	77·2	76·6	75·4	76·6	74·5	69·4
7 ...	68·7	67·3	**70·6**	75·4	81·5	83·9	76·0	77·4	76·2	77·1	73·3	69·4
8 ...	67·8	66·3	71·3	76·0	82·2	77·8	76·6	77·3	76·4	75·4	73·5	70·7
9 ...	67·3	66·5	71·5	76·4	82·3	78·5	75·4	78·4	78·3	76·7	75·4	71·1
10 ...	68·5	65·5	70·8	73·8	82·4	77·3	75·6	**78·6**	76·4	76·4	74·2	70·7
11 ...	68·3	68·0	73·9	75·4	81·3	79·4	75·6	78·1	76·4	77·6	71·8	79·3
12 ...	**61·3**	67·3	71·0	76·4	81·4	82·6	77·4	77·6	76·2	77·9	70·3	71·3
13 ...	63·3	69·1	73·3	76·2	81·3	82·5	76·5	77·4	76·4	77·1	70·6	71·8
14 ...	65·3	68·7	72·3	76·4	81·8	81·4	76·4	77·8	76·9	77·4	72·8	72·1
15 ...	66·0	69·3	73·3	76·1	81·4	81·7	77·2	78·4	76·4	75·7	72·5	66·8
16 ...	67·8	70·1	73·8	76·4	82·4	81·5	77·6	78·5	75·4	75·4	71·5	**65·8**
17 ...	68·3	68·6	75·2	76·4	81·8	80·4	**75·3**	77·9	76·5	76·3	73·3	69·6
18 ...	65·3	70·3	74·4	78·4	82·0	79·4	77·4	78·4	74·6	74·4	72·5	72·5
19 ...	67·0	**72·3**	72·0	79·0	81·6	81·4	77·6	77·2	76·4	77·1	72·3	70·5
20 ...	67·3	68·5	74·4	79·4	81·1	82·0	77·4	76·2	75·4	75·0	71·3	68·3
21 ...	66·8	68·5	72·9	78·7	81·4	81·1	77·4	76·6	75·4	74·4	71·3	72·1
22 ...	64·8	69·6	73·7	78·2	82·1	77·4	76·8	75·4	75·5	72·5	73·5	71·5
23 ...	67·6	70·3	73·3	77·6	82·4	78·4	76·7	77·6	76·2	73·1	71·7	70·5
24 ...	66·0	70·3	73·8	78·4	82·4	79·1	78·4	77·4	74·4	72·1	70·0	71·5
25 ...	68·2	68·5	74·9	77·5	82·1	77·4	78·4	76·4	74·4	73·1	**68·5**	69·3
26 ...	68·3	68·5	74·4	76·9	82·6	79·3	78·6	78·1	**74·2**	**72·0**	71·1	69·3
27 ...	66·3	70·8	74·0	77·9	83·0	77·4	77·2	78·4	76·4	74·4	71·1	67·3
28 ...	61·3	70·4	74·1	79·5	82·9	76·8	77·4	77·7	77·4	75·4	70·5	71·3
29 ...	63·6		**76·4**	**80·4**	82·9	76·4	76·4	77·3	77·0	75·4	73·3	**73·2**
30 ...	63·3		75·4	79·6	**83·6**	77·0	75·4	77·2	74·4	75·3	75·4	72·1
31 ...	61·7		75·4		83·5		75·4	76·4		75·9		71·3
Monthly Mean.	**66·5**	68·2	73·3	76·8	**81·8**	79·9	77·1	77·2	76·0	75·7	72·8	70·3

Annual mean ... ... 74·3
The least minimum temperature recorded during the year (that of 12th January) was... 61·6

Pressure of Vapour, 1909.

TABLE IIIa.—*Daily and Monthly Means.*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	0·480	0·523	0·575	0·821	0·951	0·937	0·891	0·878	0·887	0·812	0·883	0·505
2 ...	·571	·607	·671	·810	·863	·961	·916	·887	·889	·828	·880	·516
3 ...	·528	·621	·733	·785	·894	·973	·937	·897	·911	·893	·865	·532
4 ...	·583	·599	·664	·794	·861	·910	·928	·905	·925	·891	·825	·625
5 ...	·709	·568	·719	·783	·836	·998	·915	·891	·899	·856	·802	·669
6 ...	·668	·560	·687	·789	·850	·980	·937	·895	·884	·862	·792	·636
7 ...	·677	·617	·668	·814	·883	·934	·916	·892	·871	·865	·728	·664
8 ...	·665	·559	·676	·790	·931	·929	·908	·872	·881	·828	·743	·718
9 ...	·643	·573	·655	·754	·959	·966	·887	·875	·898	·815	·796	·715
10 ...	·653	·596	·619	·737	·859	·938	·893	·883	·869	·842	·694	·738
11 ...	·519	·696	·605	·742	·883	·964	·901	·856	·815	·893	·658	·732
12 ...	·382	·682	·566	·724	·889	·970	·912	·839	·821	·952	·669	·748
13 ...	·466	·703	·753	·748	·885	·966	·902	·850	·816	·890	·676	·739
14 ...	·572	·689	·752	·792	·903	·952	·889	·858	·834	·860	·680	·685
15 ...	·634	·655	·714	·797	·886	·952	·888	·842	·830	·796	·695	·554
16 ...	·651	·683	·815	·729	·917	·929	·895	·838	·823	·857	·702	·558
17 ...	·628	·656	·799	·763	·907	·929	·881	·854	·810	·867	·729	·694
18 ...	·591	·709	·771	·825	·895	·923	·900	·836	·817	·882	·722	·756
19 ...	·603	·759	·694	·847	·886	·912	·895	·858	·834	·912	·685	·716
20 ...	·620	·605	·772	·835	·882	·934	·887	·864	·835	·831	·706	·686
21 ...	·643	·650	·740	·787	·879	·938	·900	·855	·856	·754	·675	·724
22 ...	·593	·699	·743	·785	·926	·934	·902	·852	·892	·719	·687	·755
23 ...	·583	·676	·759	·826	·927	·947	·892	·898	·868	·747	·608	·741
24 ...	·655	·657	·728	·857	·912	·932	·918	·906	·825	·777	·661	·714
25 ...	·641	·561	·744	·823	·904	·933	·921	·89.	·847	·776	·666	·684
26 ...	·597	·535	·679	·828	·914	·924	·910	·891	·862	·799	·620	·657
27 ...	·485	·567	·695	·857	·935	·918	·909	·891	·883	·826	·640	·612
28 ...	·453	·589	·762	·875	·913	·916	·891	·874	·912	·820	·686	·706
29 ...	·493		·841	·894	·931	·916	·877	·890	·853	·765	·637	·728
30 ...	·401		·839	·918	·920	·923	·868	·884	·814	·854	·606	·716
31 ...	·441		·795		·925		·869	·900		·873		·686
Monthly Mean ...	0·575	0·628	0·717	0·804	0·900	0·944	0·901	0·875	0·859	0·837	0·714	0·674
Annual Variation.	−·211	−·158	−·069	+·018	+·114	+·158	+·115	+·089	+·073	+·051	−·072	−·112

In.

Annual mean ... ... 0·786

TABLE IIIb.—*Showing the mean diurnal inequality of the pressure of Vapour for each month of the year 1909, and for the whole year.*

Unity=0·001 inch.

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 2	− 6	+ 4	− 5	− 4	− 3	− 2	− 8	− 16	− 12	− 5	+ 18	16	− 5
1 2	− 8	+ 4	− 3	− 12	− 8	− 8	− 16	− 20	− 18	− 9	+ 14	35	− 10
2 2	− 9	+ 1	− 1	− 18	− 3	− 4	− 8	− 20	− 13	− 11	+ 7	− 21	− 8
3 2	− 14	− 5	− 20	− 24	− 15	− 10	− 12	− 19	− 16	− 21	− 15	− 29	− 17
4 2	− 22	− 8	− 21	− 22	− 15	− 14	− 9	− 18	− 9	− 33	− 22	− 35	− 19
5 2	− 34	− 25	− 38	− 25	− 18	− 21	− 10	− 27	− 17	− 41	− 40	− 33	− 27
6 2	− 41	− 30	− 61	− 22	− 14	− 19	− 15	− 15	− 13	− 51	− 45	− 39	− 30
7 2	− 45	− 46	− 51	− 14	− 8	− 14	− 8	− 13	− 4	− 37	− 37	− 43	− 27
8 2	− 30	− 27	− 36	− 1	0	− 1	− 1	+ 10	+ 8	− 19	− 26	− 27	− 12
9 2	− 25	− 31	− 33	− 2	+ 4	− 2	+ 5	+ 19	+ 13	− 26	− 29	− 16	− 10
10 2	− 8	− 28	− 35	+ 2	+ 15	+ 12	+ 12	+ 26	+ 21	− 13	− 20	0	− 1
11 2	− 8	− 35	0	+ 6	+ 14	+ 14	+ 17	+ 26	+ 19	− 8	− 38	− 14	− 1
12 2	+ 5	− 13	+ 28	+ 18	+ 15	+ 24	+ 27	+ 32	+ 31	− 5	− 35	− 6	+ 10
13 2	+ 20	+ 14	+ 34	+ 22	+ 16	+ 20	+ 25	+ 31	+ 24	+ 21	− 3	+ 14	+ 20
14 2	+ 31	+ 30	+ 42	+ 25	+ 19	+ 21	+ 26	+ 33	+ 20	+ 29	+ 20	+ 33	+ 27
15 2	+ 36	+ 30	+ 34	+ 19	+ 13	+ 20	+ 17	+ 25	+ 23	+ 46	+ 30	+ 47	+ 28
16 2	+ 40	+ 34	+ 34	+ 13	+ 13	+ 9	+ 5	+ 15	+ 14	+ 39	+ 44	+ 46	+ 25
17 2	+ 33	+ 30	+ 30	+ 9	+ 2	− 1	− 5	− 5	0	+ 27	+ 37	+ 42	+ 17
18 2	+ 26	+ 30	+ 28	+ 5	+ 5	− 3	− 9	− 7	− 6	+ 26	+ 43	+ 35	+ 14
19 2	+ 15	+ 29	+ 17	+ 3	− 11	− 9	− 6	− 13	− 14	+ 23	+ 50	+ 35	+ 10
20 2	+ 16	+ 30	+ 18	+ 9	− 6	+ 1	− 11	− 12	− 15	+ 22	+ 49	+ 34	+ 11
21 2	+ 19	+ 16	+ 17	+ 5	− 8	− 7	− 1	− 15	− 16	+ 15	+ 19	+ 27	+ 6
22 2	+ 16	+ 4	+ 24	+ 9	0	− 4	− 3	− 9	− 10	+ 22	− 12	+ 7	+ 4
23 2	− 2	− 3	+ 6	+ 4	− 4	− 5	− 8	− 18	− 19	+ 8	− 13	+ 1	− 4
Range ...	85	80	103	50	37	45	43	60	50	97	95	90	58

Additional Capacity of the Air, 1909.

TABLE IV*a*.—*Daily and Monthly Means.*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	0·324	0·214	0·398	0·200	0·249	0·343	0·132	0·069	0·105	0·196	0·161	0·396
2 ...	·268	·143	·347	·208	·324	·333	·147	·064	·146	·203	·149	·351
3 ...	·304	·161	·262	·232	·290	·288	·181	·102	·132	·156	·146	·328
4 ...	·262	·152	·325	·206	·314	·126	·160	·122	·125	·176	·206	·253
5 ...	·164	·188	·191	·231	·330	·235	·113	·115	·066	·205	·258	·223
6 ...	·171	·241	·207	·249	·294	·287	·122	·135	·065	·188	·253	·246
7 ...	·165	·203	·245	·226	·299	·256	·097	·165	·110	·180	·305	·190
8 ...	·180	·245	·264	·254	·259	·193	·085	·194	·131	·191	·297	·139
9 ...	·181	·256	·314	·287	·264	·137	·065	·200	·135	·191	·216	·150
10 ...	·148	·204	·380	·260	·347	·106	·084	·193	·155	·190	·356	·117
11 ...	·198	·134	·378	·272	·309	·221	·102	·218	·227	·154	·329	·135
12 ...	·297	·166	·403	·290	·311	·222	·095	·224	·231	·119	·295	·107
13 ...	·261	·137	·223	·280	·306	·206	·068	·221	·236	·190	·283	·153
14 ...	·177	·143	·211	·277	·312	·239	·098	·227	·181	·238	·280	·190
15 ...	·142	·212	·281	·243	·327	·231	·154	·220	·175	·300	·256	·248
16 ...	·129	·172	·191	·293	·309	·250	·149	·215	·158	·202	·236	·235
17 ...	·140	·212	·202	·321	·317	·237	·136	·197	·214	·169	·239	·164
18 ...	·180	·183	·236	·303	·323	·248	·146	·209	·216	·140	·245	·149
19 ...	·188	·164	·311	·279	·326	·264	·154	·201	·173	·142	·264	·144
20 ...	·183	·275	·207	·294	·323	·257	·135	·146	·128	·221	·241	·153
21 ...	·152	·180	·228	·350	·332	·239	·147	·136	·087	·274	·283	·186
22 ...	·203	·136	·216	·312	·318	·101	·117	·115	·088	·295	·285	·144
23 ...	·244	·171	·175	·268	·298	·157	·129	·099	·097	·256	·347	·146
24 ...	·165	·190	·257	·256	·324	·163	·136	·116	·054	·209	·240	·167
25 ...	·160	·285	·304	·274	·329	·139	·148	·130	·066	·202	·241	·166
26 ...	·183	·351	·374	·264	·339	·131	·120	·176	·066	·163	·300	·164
27 ...	·283	·368	·318	·257	·328	·074	·149	·181	·098	·155	·250	·231
28 ...	·288	·356	·267	·255	·360	·115	·145	·191	·115	·163	·239	·234
29 ...	·231		·212	·237	·339	·124	·100	·171	·154	·256	·401	·205
30 ...	·311		·196	·276	·345	·170	·061	·108	·181	·168	·408	·218
31 ...	·278		·230		·355		·066	·087		·149		·227
Monthly Mean ...	0·212	0·209	0·269	0·265	0·316	0·203	0·121	0·160	0·137	0·195	0·267	0·199
Annual Variation.	−·001	−·004	+·056	+·052	+·103	−·010	−·092	−·053	−·076	−·018	+·054	−·014

Annual mean ... ... In. 0·213

TABLE IV*b*.—*Showing the mean diurnal inequality of the Additional Capacity of the Air for each month of the year 1909, and for the whole year.*

Unity = 0·001 inch.

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 2 ...	− 43	− 65	− 56	− 75	− 77	− 26	− 12	− 19	− 13	− 58	− 92	− 47	− 49
1 2 ...	− 47	− 80	− 76	− 75	− 83	− 36	− 8	− 19	− 15	− 62	− 101	− 40	− 53
2 2 ...	− 51	− 84	− 92	− 78	− 98	− 39	− 16	− 25	− 24	− 65	− 104	− 56	− 61
3 2 ...	− 61	− 85	− 83	− 80	− 92	− 40	− 13	− 37	− 26	− 65	− 100	− 53	− 53
4 2 ...	− 63	− 89	− 92	− 92	− 99	− 35	− 13	− 39	− 39	− 61	− 99	− 57	− 65
5 2 ...	− 66	− 84	− 89	− 99	− 104	− 38	− 15	− 41	− 45	− 66	− 99	− 70	− 68
6 2 ...	− 61	− 89	− 75	− 107	− 95	− 41	− 15	− 50	− 52	− 67	− 104	− 71	− 69
7 2 ...	− 66	− 79	− 75	− 80	− 70	− 32	− 14	− 47	− 55	− 62	− 98	− 68	− 62
8 2 ...	− 43	− 54	− 24	− 29	− 23	− 9	− 7	− 38	− 44	− 35	− 68	− 50	− 35
9 2 ...	− 1	− 1	+ 34	+ 19	+ 26	+ 16	+ 1	− 27	− 28	+ 10	− 17	− 20	+ 1
10 2 ...	+ 38	+ 60	+103	+ 74	+ 71	+ 30	+ 14	− 10	0	+ 54	+ 48	+ 28	+ 42
11 2 ...	+ 84	+126	+109	+108	+103	+ 45	+ 8	+ 15	+ 23	+ 93	+144	+ 99	+ 80
12 2 ...	+102	+142	+117	+133	+137	+ 54	+ 12	+ 38	+ 29	+122	+214	+142	+103
13 2 ...	+103	+128	+121	+146	+143	+ 63	+ 24	+ 56	+ 42	+114	+195	+139	+106
14 2 ...	+ 99	+119	+123	+148	+147	+ 71	+ 26	+ 62	+ 59	+117	+178	+126	+106
15 2 ...	+ 84	+115	+116	+139	+140	+ 57	+ 25	+ 54	+ 55	+ 98	+158	+ 94	+ 95
16 2 ...	+ 60	+ 93	+ 91	+122	+112	+ 45	+ 22	+ 54	+ 47	+ 82	+112	+ 70	+ 76
17 2 ...	+ 27	+ 57	+ 53	+ 75	+ 74	+ 29	+ 13	+ 49	+ 42	+ 43	+ 52	+ 21	+ 45
18 2 ...	0	+ 5	+ 2	+ 9	+ 7	+ 7	+ 5	+ 24	+ 25	0	0	− 8	+ 6
19 2 ...	− 1	− 17	− 15	− 26	− 17	− 9	− 4	+ 13	+ 20	− 18	− 30	− 23	− 11
20 2 ...	− 6	− 28	− 26	− 44	− 36	− 22	− 3	+ 2	+ 13	− 26	− 46	− 35	− 21
21 2	− 24	− 28	− 42	− 52	− 44	− 29	− 19	− 3	+ 5	− 35	− 47	− 39	− 30
22 2 ...	− 33	− 30	− 57	− 63	− 57	− 29	− 10	− 8	− 4	− 56	− 39	− 34	− 35
23 2 ...	− 40	− 42	− 57	− 66	− 64	− 30	− 10	− 13	− 4	− 59	− 56	− 52	− 41
Range ...	169	231	215	255	251	112	45	112	114	189	318	213	175

Rainfall, 1909.

TABLE Va.—*Total fall of rain (in inches) as measured by F. Chambers's Self-registering Gauge, the funnel of which is 28 feet above the ground.*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
						In.	In.	In.	In.			
1	...	...	...	...	...	...	0·95	0·60	0·10	...	...	...
2	...	...	...	...	...	...	0·24	1·09	0·12	...	...	...
3	...	...	...	...	...	...	...	0·25	0·17	...	...	...
4	...	...	...	...	...	2·23	0·65	0·05	0·18	...	...	...
5	...	...	...	...	...	....	1·32	0·28	1·11	...	...	...
6	...	...	...	...	...	0·04	1·27	0·06	3·12	...	...	...
7	...	...	...	...	...	0·05	0·72	0·02	1·11	...	...	...
8	...	...	...	...	...	1·19	2·25	...	0·49	...	...	...
9	...	...	...	...	...	0·97	4·08	...	0·25	...	...	...
10	...	...	...	...	...	1·47	2·76	...	0·01	...	...	...
11	...	...	...	...	...	0·02	1·09	0·02	...	...	...	...
12	...	...	...	...	...	...	1·99	...	...	...	...	...
13	...	...	...	...	...	...	3·17	...	...	...	...	...
14	...	...	...	...	...	0·18	1·39	...	...	...	...	...
15	...	...	...	...	...	0·03	0·01	0·01	0·01	...	...	...
16	...	...	...	...	...	0·05	0·27	...	0·09	...	...	...
17	...	...	...	...	...	0·17	0·35	0·05	0·11	...	...	...
18	...	...	...	...	...	0·14	0·18	...	0·11	...	...	...
19	...	...	...	...	...	0·02	0·09	0·01	0·17	...	...	...
20	...	...	...	...	...	0·02	0·33	0·31	0·51	...	...	...
21	...	...	...	...	...	0·06	0·08	0·24	1·81	...	...	...
22	...	...	...	...	...	2·77	0·54	0·37	0·21	...	...	...
23	...	...	...	...	...	0·04	0·26	1·32	1·53	...	...	...
24	...	...	...	...	...	...	0·44	0·69	1·53	...	...	...
25	...	...	...	...	...	0·19	0·07	0·20	0·12	...	...	...
26	...	...	...	...	...	0·74	0·47	...	1·76	...	...	...
27	...	...	...	...	...	3·04	0·13	0·19	0·11	...	...	...
28	...	...	...	...	...	1·46	0·57	0·10	0·25	...	...	...
29	...	...		...	...	0·96	0·64	0·01	0·03	...	...	...
30	...	...		...	...	0·11	3·69	1·03	...	...	...	...
31	...	...		...			1·48	0·91		...		...
Monthly Total ...	...	...	...	...	...	15·95	31·48	7·81	15·01	...	...	...
Number of rainy days.	...	...	...	...	...	23	30	22	25	...	...	...

	Inches.
Total fall of rain in the year	70·25
Total number of rainy days in the year	100
The greatest daily fall of rain in the year (that of 9th July) was	4·08

No rain fell in the months of January, February, March, April, May, October, November and December, nor on any of the days left blank in the above table.

TABLE Vb.—*Total fall of rain (in inches) as measured by Newman's Gauge, placed 4½ feet above the ground.*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
						In.	In.	In.	In.			
1	...	...	...	...	..	...	0·96	0·59	0·12	...	...	...
2	...	...	...	...	...	...	0·25	1·07	0·12	...	...	...
3	...	...	...	...	...	...	...	0·23	0·17	...	...	...
4	...	...	...	...	...	2·39	0·65	0·05	0·18	...	...	...
5	...	...	...	...	...	...	1·34	0·27	1·13	...	...	.
6	...	...	...	...	...	0·04	1·25	0·04	3·17	...	...	...
7	...	...	...	...	...	0·05	0·75	0·03	1·12	...	...	...
8	...	...	...	...	...	1·19	2·26	...	0·50	...	...	...
9	...	...	...	...	...	1·00	4·07	...	0·24	...	...	...
10	...	...	...	...	...	1·57	2·73	...	0·01	..	...	...
11	...	...	...	...	...	0·02	1·08	0·03	...	...	...	..
12	...	...	...	...	...	...	2·00	...	...	..	...	...
13	...	...	...	...	...	...	3·11	...	...	...	...	...
14	...	...	...	...	...	0·18	1·43	...	...	...	...	...
15	...	...	...	...	...	0·04	0·01	0·01	0·01	...	...	...
16	...	...	...	...	...	0·05	0·28	...	0·11	..	...	...
17	...	...	...	...	...	0·17	0·35	0·05	0·12	...	...	..
18	...	...	...	...	...	0·15	0·18	...	0·12	...	...	...
19	...	...	...	...	...	0·02	0·10	0·01	0·17	...	...	...
20	...	...	...	...	...	0·02	0·33	0·32	0·52	...	...	...
21	...	...	...	...	...	0·06	0·08	0·24	1·85	...	...	...
22	...	...	...	...	...	3·04	0·54	0·37	0·21	...	...	...
23	...	...	...	...	...	0·05	0·25	1·33	1·58	...	...	...
24	...	...	...	...	...	...	0·43	0·69	1·57	...	...	..
25	...	...	...	...	...	0·19	0·07	0·21	0·16	...	...	...
26	...	...	...	...	...	0·76	0·48	...	1·78	...	...	...
27	...	...	...	...	...	3·10	0·14	0·19	0·11	...	...	..
28	...	...	...	...	...	1·48	0·56	0·10	0·25	...	...	...
29	...	...		...	...	0·99	0·63	0·02	0·03	...	...	...
30	...	...		...	...	0·12	3·61	1·04	...	...	...	...
31	...	...		...			1·45	0·93		...		...
Monthly Total ...	...	...	...	...	...	16·68	31·37	7·82	15·35	...	...	...
Number of rainy days.	...	...	...	...	...	23	30	22	25	...	...	...

	Inches.
Total fall of rain in the year	71·22
Total number of rainy days in the year	100
The greatest daily fall of rain in the year (that of 9th July) was	4·07

No rain fell in the months of January, February, March, April, May, October, November and December, nor on any of the days left blank in the above table.

Velocity of Wind, 1909.

Robinson Beckley's Anemograph.

TABLE VIa.—*Mean velocity of the wind in miles per hour, without regard to the direction from which it blew for each day of Bombay Civil Time; also the mean monthly velocity and its variation from the mean of the year.*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
1 ...	10·9	9·7	9·7	10·0	9·4	8·9	18·7	**17·0**	7·1	7·0	6·7	**13·5**
2 ...	9·1	10·2	**5·2**	7·6	7·1	**8·7**	19·4	15·3	5·9	9·6	6·9	10·5
3 ...	12·7	11·3	6·5	9·2	7·7	10·7	12·7	14·7	6·4	7·7	**4·8**	13·1
4 ...	7·6	7·7	9·8	7·1	11·5	8·8	**11·2**	12·7	8·4	9·6	6·4	7·4
5 ...	8·8	9·8	**14·0**	7·2	11·7	9·8	11·9	8·2	5·5	9·2	6·3	7·6
6 ...	8·2	8·5	10·7	7·8	11·7	11·7	12·6	11·3	12·1	9·5	7·3	8·5
7 ...	8·0	9·0	12·3	7·7	8·5	13·6	15·0	11·6	**14·0**	**9·9**	7·3	8·1
8 ...	6·9	10·3	11·0	7·6	10·2	9·5	13·0	13·5	13·3	8·8	6·5	6·9
9 ...	7·8	12·2	7·5	10·1	16·7	9·9	16·4	12·5	10·1	8·9	5·7	8·8
10 ...	7·8	8·2	11·8	8·7	**19·2**	13·0	19·0	12·2	9·3	7·5	10·1	6·2
11 ...	12·1	6·5	11·7	9·5	10·5	16·8	19·4	10·6	7·9	6·5	6·7	6·4
12 ...	8·7	5·7	7·8	10·4	6·6	15·8	20·0	10·6	8·8	6·0	7·1	**4·9**
13 ...	7·0	**5·5**	5·7	9·8	7·7	13·3	18·8	7·4	5·8	**4·6**	8·7	9·2
14 ...	**6·5**	5·9	6·0	9·9	8·3	9·3	16·5	9·7	6·5	7·5	8·2	6·2
15 ...	7·4	6·3	11·2	10·3	7·5	10·1	15·8	8·4	6·8	7·0	7·7	13·4
16 ...	7·2	7·0	8·3	10·0	8·0	11·4	21·7	8·4	8·0	6·1	7·0	6·4
17 ...	7·7	7·7	7·2	**6·3**	7·7	13·4	21·8	8·7	8·7	6·3	6·3	8·5
18 ...	8·9	6·5	7·0	6·8	9·1	16·0	19·2	8·2	8·8	5·2	7·1	6·1
19 ...	8·7	7·5	8·8	7·4	10·0	13·2	18·0	7·0	7·9	5·4	7·7	7·2
20 ...	11·3	6·1	6·8	9·1	10·0	14·0	13·3	7·5	8·2	6·4	6·8	7·5
21 ...	9·4	7·2	8·1	8·8	7·9	12·7	12·5	7·9	6·5	7·5	6·9	8·0
22 ...	10·1	7·7	9·3	8·5	7·8	14·1	11·8	**6·3**	9·5	8·0	9·0	6·2
23 ...	8·4	9·1	8·3	**10·5**	9·1	10·7	18·9	7·5	7·2	8·5	8·0	6·5
24 ...	10·1	10·1	11·5	8·4	9·3	11·0	21·4	9·5	4·8	7·3	7·8	7·0
25 ...	11·4	**14·1**	12·7	7·9	9·0	14·6	18·2	9·1	7·3	8·0	6·8	6·5
26 ...	11·3	12·8	10·9	8·0	8·7	14·6	17·7	10·0	6·1	7·9	8·5	10·6
27 ...	**15·5**	11·8	9·7	7·9	8·2	**21·0**	17·6	8·3	6·4	9·8	7·3	9·9
28 ...	12·0	12·5	9·0	8·9	**6·5**	16·3	17·5	9·7	5·2	9·7	8·4	**8·5**
29 ...	10·5		6·7	10·5	6·6	13·7	**22·2**	9·0	10·2	6·2	**11·1**	7·2
30 ...	10·5		6·5	8·3	9·2	14·1	20·6	6·3	**4·7**	6·2	10·9	8·2
31 ...	10·6		7·7		8·8		17·1	7·1		5·8		7·8
Monthly Mean ...	9·5	8·8	9·0	8·7	9·4	12·7	**17·1**	9·9	7·9	**7·5**	7·5	8·1
Annual Variation.	−0·2	−0·9	−0·7	−1·0	−0·3	+3·0	+7·4	+0·2	−1·8	−2·2	−2·2	−1·6

TABLE VIb.—*Showing the mean diurnal inequality of the velocity of the wind in miles per hour for each month of the year 1909, and for the whole year.*

1909. Bombay Civil Time Hourly Intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
0 to 1 ...	−3·0	**−3·6**	−1·2	−2·1	−0·6	−0·2	+0·2	−0·8	−0·6	−1·9	−2·3	−2·6	−1·6
1 „ 2 ...	−2·0	−3·6	−1·7	−2·3	−1·2	−0·3	+0·2	−0·4	−0·7	−2·0	−2·3	−2·2	−1·5
2 „ 3 ...	−2·0	−2·4	−1·0	−2·1	−0·8	−0·6	+0·3	−0·3	−0·7	−1·4	−2·0	−1·8	−1·2
3 „ 4 ...	−2·9	−2·2	−1·2	−2·5	−0·8	−0·5	+0·1	−0·7	−0·2	−1·7	−0·9	−1·4	−1·2
4 „ 5 ...	−3·2	−2·3	−2·3	−3·5	−1·0	−0·7	+0·2	−0·3	+0·2	−2·2	−1·4	−1·2	−1·5
5 „ 6 ...	−3·1	−2·9	−2·5	−3·6	−1·8	−0·2	+0·6	−1·1	−0·3	**−2·5**	−0·6	−1·3	−1·6
6 „ 7 ...	**−3·6**	−2·4	−3·3	**−4·1**	−1·8	+0·3	+0·8	−0·5	−1·3	−2·3	+0·1	−1·5	−1·6
7 „ 8 ...	−3·6	−2·6	**−3·5**	−3·2	**−1·9**	+0·5	+0·3	−1·2	−1·5	−1·9	+0·8	−1·1	−1·6
8 „ 9 ...	−2·4	−2·2	−2·8	−2·5	−1·5	+0·2	+0·4	**−1·4**	−0·8	−1·1	+1·1	−0·1	−1·1
9 „ 10 ...	−2·5	−1·4	−3·2	−2·5	−0·7	+0·6	+0·3	−1·3	−0·6	−1·6	+0·1	−0·6	−1·1
10 „ 11 ...	−1·9	−1·8	−1·8	−0·9	+0·1	+1·0	−0·1	−0·7	−0·3	−1·3	−1·5	−1·5	−0·9
11 „ 12 ...	−0·5	−0·3	+0·6	+1·3	+0·8	+0·5	−1·1	+0·1	+0·4	0·0	−2·2	−1·6	−0·2
12 „ 13 ...	+1·5	+2·2	+2·6	+2·9	+1·9	+0·6	−0·4	+1·0	+1·3	+1·9	−0·2	−0·3	+1·2
13 „ 14 ...	+3·2	+3·8	+3·3	+4·4	+2·9	+0·3	−0·3	+1·9	+2·2	+3·5	+1·7	+1·2	+2·3
14 „ 15 ...	+4·8	+4·8	+4·6	+5·8	+3·2	+0·9	+0·1	**+2·8**	+2·5	**+4·6**	+2·8	+2·6	+3·3
15 „ 16 ...	+5·1	+5·2	**+4·7**	**+6·1**	**+3·8**	**+1·6**	+1·0	+2·6	**+3·0**	+4·4	+2·9	+3·1	**+3·6**
16 „ 17 ...	**+5·5**	**+5·4**	+4·4	+6·0	+3·1	+0·7	**+1·3**	+1·7	+2·0	+4·3	+2·9	+3·8	+3·4
17 „ 18 ...	+4·8	+4·8	+3·8	+5·0	+2·5	+0·8	+0·9	+0·9	+1·2	+3·2	+3·4	+3·7	+2·9
18 „ 19 ...	+5·0	+4·4	+2·4	+2·8	+0·7	−0·8	−0·9	+0·3	+0·7	+2·8	**+3·6**	**+3·8**	+2·1
19 „ 20 ...	+4·2	+3·0	+1·6	+1·3	−1·2	−0·9	−0·7	−0·2	−0·1	+1·3	+2·5	+3·1	+1·2
20 „ 21 ...	+2·0	+1·2	+0·3	−0·4	−1·5	−1·0	−1·2	−0·3	−1·1	0·0	−0·5	+2·0	0·0
21 „ 22 ...	−0·7	−1·6	−1·0	−1·7	−1·9	−0·5	**−1·4**	−0·8	−1·6	−1·0	−2·4	−0·5	−1·3
22 „ 23 ...	−2·9	−2·2	−0·9	−2·3	−1·5	**−1·5**	−0·7	−1·0	**−1·8**	−2·0	−2·2	−1·8	−1·7
23 „ 24 ...	−3·0	−2·6	−1·3	−2·5	−1·6	−1·1	0·0	−0·8	−1·6	−2·2	**−2·5**	**−2·7**	**−1·8**
Range ...	9·1	9·0	8·2	10·2	5·7	3·1	2·7	4·2	4·8	7·1	6·1	6·5	5·4

	Miles.
The mean velocity for June to August	13·2
The mean velocity for September to May	8·5
The mean velocity for the year	9·7

TABLE VIc.—*Showing the Mean Velocities of the North or South and East or West Components of the Winds which blew on each day of the year 1909.*

(In miles per hour.)

1909.	Month.																							
Date.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.
1 ...	9·6 N	3·5 W	6·7 N	1·6 W	8·4 N	3·0 W	3·4 N	5·4 W	2·1 S	6·0 W	2·8 N	8·3 W	3·8 S	18·0 W	1·4 S	16·8 W	5·0 S	1·0 W	0·2 S	0·5 W	1·0 N	2·0 W	7·7 N	5·2 E
2 ...	7·5 N	1·4 W	7·5 N	4·2 W	1·9 N	0·9 W	2·0 N	5·3 W	0·4 S	4·0 W	2·5 N	7·9 W	5·4 S	18·3 W	3·4 S	14·3 W	2·4 S	0·5 E	7·3 N	5·6 W	0·4 S	1·8 W	5·6 N	4·7 E
3 ...	11·5 N	4·6 W	8·2 N	2·0 W	3·4 N	3·1 W	2·9 N	3·5 W	0·2 S	4·2 W	1·2 N	4·1 W	6·1 S	10·9 W	5·4 S	13·6 W	3·5 N	2·7 W	4·5 N	4·7 W	2·5 N	1·7 W	7·9 N	3·7 E
4 ...	5·8 N	3·5 W	4·7 N	4·7 W	6·8 N	4·3 W	3·4 N	3·6 W	2·4 N	5·5 W	2·7 S	1·4 W	5·6 S	9·6 W	2·9 S	12·1 W	5·2 N	5·9 W	4·9 N	8·1 W	3·4 N	0·3 E	4·9 N	0·1 W
5 ...	6·0 N	3·1 W	3·5 N	2·1 W	11·2 N	7·1 W	2·5 N	4·1 W	8·3 N	7·5 W	1·8 S	9·5 W	4·2 S	10·2 W	2·8 S	7·5 W	0·3 N	3·4 W	4·9 N	7·5 W	2·9 N	1·2 E	4·8 N	0·2 W
6 ...	6·0 N	3·8 W	4·4 N	0·6 E	8·6 N	5·0 W	3·4 N	3·9 W	7·4 N	8·4 W	0·1 S	11·6 W	5·9 S	10·3 W	2·5 S	10·8 W	3·4 S	10·4 W	7·0 N	5·0 W	3·2 N	0·2 W	6·0 N	1·1 W
7 ...	5·4 N	3·2 W	4·3 N	2·2 W	10·1 N	5·2 W	3·5 N	4·8 W	3·3 N	6·8 W	2·0 S	12·8 W	4·7 S	13·9 W	0·8 S	11·5 W	8·3 S	10·0 W	7·5 N	5·5 W	4·8 N	0·7 W	5·9 N	2·3 W
8 ...	4·7 N	0·6 W	7·4 N	4·8 W	8·9 N	4·9 W	3·1 N	6·3 W	2·1 N	6·6 W	3·2 S	5·3 W	1·8 S	12·4 W	0·2 S	13·4 W	5·6 S	11·0 W	5·9 N	5·8 W	3·0 N	0·8 E	4·5 N	3·1 W
9 ...	5·3 N	3·7 W	10·6 N	3·9 W	4·4 N	3·2 W	4·8 N	6·2 W	15·5 S	4·9 W	7·9 S	4·6 W	5·5 S	15·1 W	0·4 S	12·4 W	0·7 N	9·7 W	5·8 N	2·5 W	0·2 S	0·4 W	6·3 N	4·6 W
10 ...	4·7 N	5·5 W	5·8 N	2·6 W	9·5 N	3·7 W	4·2 N	4·6 W	17·9 S	4·6 W	7·7 S	4·0 W	4·5 S	18·1 W	0·5 N	11·9 W	0·9 N	4·3 W	5·2 N	4·4 W	6·8 N	0·1 E	4·5 N	2·6 W
11 ...	9·6 N	2·9 W	2·3 N	3·0 W	9·1 N	4·9 W	5·1 N	6·3 W	7·6 S	1·2 W	5·9 S	15·7 W	6·7 S	18·1 W	0·1 N	10·5 W	3·0 N	7·2 W	4·2 N	4·6 W	4·0 N	0·6 E	3·0 N	1·2 W
12 ...	6·6 N	2·1 W	1·2 N	0·9 W	4·7 N	2·9 W	5·2 N	7·2 W	2·6 S	5·4 W	4·8 S	14·8 W	7·7 S	18·5 W	2·0 S	10·2 W	0·5 N	8·7 W	3·4 N	2·9 W	3·4 N	0·2 W	1·8 N	2·4 W
13 ...	3·8 N	0·1 W	1·8 N	2·4 W	2·7 S	2·5 W	4·7 N	6·5 W	1·2 N	7·4 W	3·4 S	12·6 W	6·7 S	17·5 W	2·7 S	6·8 W	0·5 S	5·7 W	2·2 N	0·8 W	4·4 N	0·7 E	6·0 S	3·3 E
14 ...	3·5 N	0·9 W	2·8 N	2·5 W	2·5 N	3·6 W	4·1 N	6·9 W	1·4 S	8·0 W	4·1 S	8·2 W	4·8 S	15·5 W	0·0	9·6 W	4·0 S	0·8 E	6·3 N	2·3 W	4·0 N	0·0	2·2 N	2·7 W
15 ...	4·5 N	3·0 W	2·3 N	2·4 W	8·9 N	6·1 W	4·5 N	7·5 W	2·8 S	7·0 W	5·7 S	7·8 W	6·1 S	14·6 W	2·8 N	7·4 W	0·5 S	2·8 W	5·3 N	0·1 W	4·4 N	0·0	11·3 N	2·2 W
16 ...	4·7 N	4·3 W	2·6 N	2·0 W	5·9 S	2·7 W	4·7 N	8·5 W	1·5 S	7·6 W	2·9 S	10·8 W	3·7 S	20·9 W	3·5 N	6·1 W	2·2 N	6·1 W	3·8 N	2·2 W	2·6 N	1·5 E	4·2 N	0·7 W
17 ...	4·7 N	0·6 E	4·9 N	2·3 W	0·7 S	1·9 W	2·1 S	5·5 W	0·7 N	7·4 W	4·9 S	12·4 W	4·2 S	21·0 W	4·2 N	6·5 W	3·1 N	7·0 W	2·8 N	2·8 W	1·1 N	0·6 E	4·2 N	0·9 W
18 ...	7·2 N	2·2 W	3·2 N	3·9 W	2·6 N	3·3 W	4·2 S	4·9 W	3·2 N	8·5 W	3·8 S	15·2 W	1·2 S	19·0 W	1·9 N	7·8 W	3·3 N	7·0 W	2·7 N	2·3 W	4·0 N	0·6 E	1·3 N	0·1 W
19 ...	7·0 N	3·7 W	2·6 N	3·9 W	3·9 N	4·0 W	2·6 S	6·1 W	4·7 N	8·7 W	6·0 S	11·4 W	5·4 S	16·9 W	1·8 S	4·2 W	0·8 N	7·5 W	3·0 N	2·3 W	4·1 N	0·9 W	4·2 N	1·9 W
20 ...	9·3 N	5·4 W	2·8 N	2·1 W	2·9 N	3·1 W	2·9 S	8·1 W	3·8 N	8·5 W	5·6 S	12·8 W	5·8 S	11·8 W	0·1 N	3·0 W	2·8 S	2·4 W	3·6 N	1·2 W	2·8 N	0·3 E	5·4 N	1·4 W
21 ...	7·8 N	3·0 W	3·8 N	2·5 W	2·4 N	4·9 W	1·9 S	8·4 W	1·6 N	7·5 W	5·9 S	10·8 W	3·6 S	11·6 W	1·0 N	5·5 W	1·6 S	2·7 W	5·2 N	0·7 W	4·0 N	0·3 W	3·5 N	0·6 E
22 ...	8·6 N	4·2 W	3·2 N	5·2 W	5·3 N	6·2 W	1·7 N	7·9 W	1·5 N	7·4 W	12·7 S	2·1 E	4·5 S	10·8 W	2·4 N	4·8 W	6·3 S	0·1 E	4·6 N	1·7 E	4·7 N	1·2 E	2·9 N	2·2 W
23 ...	7·0 N	2·6 W	5·2 N	4·7 W	4·8 N	5·9 W	5·2 N	8·2 W	3·6 N	8·3 W	8·5 S	1·1 W	2·9 S	18·3 W	1·4 N	5·0 W	3·2 N	2·4 W	5·2 N	0·2 E	5·3 N	0·7 E	3·3 N	0·5 W
24 ...	7·1 N	5·0 W	6·9 N	5·4 W	7·7 N	6·5 W	2·5 N	6·9 W	2·6 N	8·8 W	9·4 S	0·5 E	0·0	21·4 W	0·4 N	9·2 W	0·9 N	1·6 W	4·8 N	0·0	4·5 N	0·1 E	2·3 N	1·4 W
25 ...	9·5 N	4·9 W	11·4 N	6·8 W	8·7 N	7·5 W	3·0 N	7·0 W	1·5 N	8·7 W	13·6 S	0·2 W	0·2 N	18·2 W	0·2 S	6·6 W	4·9 S	3·0 W	6·2 N	2·1 W	3·2 N	0·5 E	3·9 N	2·7 W
26 ...	9·5 N	5·4 W	10·3 N	4·8 W	8·2 N	4·5 W	2·4 N	7·3 W	0·9 S	8·4 W	13·3 S	1·8 E	1·4 S	17·5 W	1·1 N	9·7 W	1·7 S	4·6 W	5·9 N	2·2 W	4·7 N	0·8 E	8·4 N	1·4 W
27 ...	13·6 N	3·4 W	9·3 N	3·5 W	7·5 N	4·8 W	0·5 N	5·5 W	1·6 S	7·8 W	8·5 S	18·0 W	3·0 S	17·0 W	0·5 N	8·2 W	0·9 S	3·3 W	7·8 N	3·6 W	4·5 N	0·2 W	7·1 N	1·3 W
28 ...	10·1 N	4·6 W	10·4 N	5·3 W	5·4 N	4·9 W	3·6 N	7·8 W	2·5 S	5·7 W	8·5 S	13·1 W	5·2 S	16·4 W	3·6 N	8·6 W	2·8 N	4·0 W	7·6 N	3·6 W	3·9 N	2·3 E	4·7 N	3·2 E
29 ...	8·6 N	3·8 W			1·8 N	3·9 W	5·5 N	7·7 W	0·0	6·2 W	6·2 S	12·0 W	7·4 S	20·7 W	1·1 N	7·9 W	6·9 N	6·9 W	2·1 N	2·2 E	3·1 N	8·8 E	1·1 N	0·9 E
30 ...	8·7 N	2·8 W			1·3 N	4·5 W	4·6 N	7·6 W	3·0 N	8·6 W	5·2 S	12·9 W	2·0 S	19·9 W	0·8 N	5·0 W	0·8 N	0·9 W	1·6 S	0·7 E	5·8 N	6·1 E	5·1 N	0·9 E
31 ...	7·7 N	1·5 W			1·3 N	5·5 W			3·2 N	8·2 W			0·8 S	16·5 W	4·8 S	1·4 E			3·4 N	1·7 W			5·8 N	0·9 W
Monthly Mean ...	7·3 N	3·2 W	5·4 N	3·2 W	4·9 N	4·3 W	2·6 N	6·2 W	0·1 S	6·9 W	5·3 S	8·5 W	4·2 S	16·1 W	0·2 S	8·6 W	0·3 S	4·7 W	4·6 N	2·6 W	3·5 N	0·6 E	4·4 N	0·5 W
Annual Variation.	5·4 N	2·1 E	3·5 N	2·1 E	3·0 N	1·0 E	0·7 N	0·9 W	2·0 S	1·6 W	7·2 S	3·2 W	6·1 S	10·8 W	2·1 S	3·3 W	2·2 S	0·6 E	2·7 N	2·7 E	1·6 N	5·9 E	2·5 N	4·8 E

The Velocities of the Mean Components for the year are 1·9 N and 5·3 W

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TABLE VId.—*Showing the Mean Diurnal Inequality of the Velocity of the North or South and East or West Components of the Wind for each Month of the year 1909, and for the whole year.*

1909.	Months.																								Year.	
	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.			
Bombay Civil Time. Hourly Intervals.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.
0 to 1 ...	1·6 S	2·4 E	1·6 S	2·1 E	1·2 N	1·3 E	0·7 N	1·3 E	0·9 S	0·8 E	1·1 S	0·6 E	0·3 S	0·2 W	0·7 S	0·4 E	1·3 S	1·8 E	0·8 S	1·7 E	3·1 S	3·3 E	0·4 S	2·4 E	0·8 S	1·5 E
1 „ 2 ...	0·5 S	2·2 E	1·8 S	2·0 E	1·2 N	2·5 E	1·1 N	2·2 E	1·3 S	1·9 E	1·1 S	1·0 E	0·3 S	0·2 W	0·4 S	0·1 E	1·5 S	1·8 E	1·4 S	2·3 E	2·4 S	3·1 E	0·9 S	3·5 E	0·8 S	1·9 E
2 „ 3 ...	0·3 S	2·2 E	1·3 S	2·2 E	1·5 N	2·5 E	1·1 N	3·6 E	1·8 S	1·9 E	0·0	1·3 E	0·3 N	0·5 W	0·1 S	0·0	1·3 S	2·0 E	1·3 S	2·7 E	1·6 S	3·0 E	1·8 S	3·9 E	0·5 S	2·1 E
3 „ 4 ...	1·3 S	3·1 E	0·6 S	2·4 E	1·3 N	3·4 E	1·0 N	4·1 E	1·6 S	2·5 E	0·5 N	0·0	0·4 N	0·4 W	0·0	0·6 E	1·0 S	1·6 E	1·3 S	2·9 E	2·2 S	4·3 E	1·8 S	4·4 E	0·5 S	2·4 E
4 „ 5 ...	1·7 S	4·4 E	0·8 S	3·8 E	0·0	4·4 E	0·4 N	5·0 E	1·9 S	2·4 E	0·1 N	0·6 E	1·0 N	0·5 W	0·7 N	0·4 E	1·5 S	2·5 E	1·3 S	3·6 E	2·1 S	4·1 E	1·8 S	5·1 E	0·7 S	3·0 E
5 „ 6 ...	1·7 S	4·2 E	1·1 S	5·2 E	0·4 S	5·1 E	0·3 N	6·0 E	1·6 S	3·2 E	0·6 N	0·7 E	0·5 N	0·7 W	0·4 S	1·4 E	1·0 S	3·8 E	1·7 S	4·5 E	1·3 S	4·7 E	1·7 S	5·1 E	0·8 S	3·6 E
6 „ 7 ...	2·6 S	4·9 E	1·6 S	6·8 E	1·8 S	5·7 E	0·1 S	6·7 E	1·7 S	3·7 E	0·5 S	1·3 E	0·5 N	1·1 W	0·9 S	1·9 E	0·8 S	3·6 E	1·7 S	4·6 E	1·2 S	5·6 E	1·9 S	5·2 E	1·2 S	4·1 E
7 „ 8 ...	2·9 S	5·4 E	2·6 S	7·7 E	3·5 S	6·5 E	0·9 S	7·9 E	0·6 S	3·4 E	0·0	1·1 E	0·6 N	0·5 W	0·3 S	2·5 E	0·6 S	3·9 E	2·3 S	6·2 E	1·3 S	6·8 E	2·2 S	6·2 E	1·4 S	4·8 E
8 „ 9 ...	2·5 S	5·7 E	3·6 S	8·7 E	3·4 S	6·4 E	1·0 S	7·4 E	1·0 S	2·1 E	0·2 N	1·1 E	0·2 S	0·3 W	0·8 S	3·7 E	1·8 S	4·2 E	2·1 S	6·0 E	1·9 S	7·2 E	2·1 S	7·6 E	1·7 S	5·0 E
9 „ 10 ...	3·4 S	5·9 E	2·8 S	7·4 E	3·7 S	4·4 E	1·9 S	4·3 E	1·1 S	0·9 E	0·7 N	1·2 E	0·3 S	0·1 W	0·9 S	3·3 E	1·4 S	3·0 E	1·7 S	4·6 E	2·2 S	6·3 E	2·5 S	6·9 E	1·8 S	4·0 E
10 „ 11 ...	2·8 S	3·5 E	2·4 S	3·7 E	3·1 S	0·2 W	1·4 S	0·0	0·1 N	0·5 W	1·6 S	0·1 W	1·4 S	0·6 E	0·2 S	1·7 E	1·9 S	1·7 E	1·7 S	1·6 E	2·1 S	4·0 E	2·2 S	4·1 E	1·7 S	1·7 E
11 „ 12 ...	1·5 S	1·4 W	1·1 S	2·2 W	2·4 S	3·4 W	1·3 S	2·7 W	0·2 N	1·8 W	0·4 N	0·8 W	0·5 S	1·2 E	0·0	0·3 E	0·8 S	0·3 W	1·1 S	2·3 W	2·1 S	0·8 E	2·1 S	0·1 W	1·0 S	1·1 W
12 „ 13 ...	0·4 S	4·7 W	0·1 S	5·2 W	0·9 S	5·2 W	1·3 S	4·4 W	0·5 N	3·1 W	1·3 N	1·9 W	0·6 N	0·3 E	0·1 N	1·6 W	0·3 N	2·7 W	0·3 N	4·5 W	1·0 S	4·6 W	1·6 S	3·9 W	0·2 S	3·5 W
13 „ 14 ...	0·6 N	6·5 W	0·6 N	7·4 W	0·2 S	5·9 W	0·7 S	6·2 W	1·7 N	4·3 W	2·1 N	1·6 W	0·6 N	0·5 E	0·1 N	2·7 W	0·8 N	3·9 W	1·2 N	6·2 W	0·0	7·7 W	0·8 S	6·6 W	0·5 N	4·9 W
14 „ 15 ...	1·5 N	7·8 W	2·0 N	7·8 W	0·6 N	7·0 W	0·5 N	7·4 W	1·7 N	4·5 W	1·4 N	1·7 W	0·3 S	0·1 W	0·5 N	3·8 W	1·4 N	4·5 W	1·8 N	7·3 W	1·4 N	8·5 W	0·4 N	7·9 W	1·1 N	5·7 W
15 „ 16 ...	2·6 N	7·1 W	2·2 N	7·9 W	1·7 N	6·9 W	0·7 N	7·6 W	1·4 N	4·5 W	0·9 N	2·0 W	0·4 S	1·0 W	1·2 N	3·4 W	2·1 N	5·3 W	2·4 N	6·6 W	1·9 N	8·7 W	1·3 N	8·1 W	1·5 N	5·8 W
16 „ 17 ...	3·7 N	6·2 W	3·0 N	7·8 W	2·4 N	6·3 W	1·7 N	7·3 W	1·8 N	3·7 W	0·2 N	1·3 W	0·2 N	1·5 W	0·8 N	2·5 W	1·8 N	4·2 W	3·1 N	5·9 W	3·5 N	7·6 W	2·6 N	8·1 W	2·1 N	5·2 W
17 „ 18 ...	3·7 N	5·2 W	3·6 N	6·5 W	2·6 N	5·3 W	1·3 N	6·5 W	1·9 N	3·0 W	0·4 S	1·5 W	0·1 S	0·9 W	1·1 N	1·7 W	2·1 N	3·1 W	3·1 N	4·0 W	4·8 N	7·0 W	4·2 N	6·7 W	2·3 N	4·3 W
18 „ 19 ...	4·5 N	4·6 W	3·5 N	6·2 W	2·0 N	3·9 W	0·5 N	4·4 W	1·6 N	1·7 W	0·2 N	0·7 W	0·8 N	1·0 E	1·0 N	1·0 W	2·2 N	2·7 W	2·8 N	3·1 W	5·7 N	6·3 W	4·7 N	6·0 W	2·5 N	3·3 W
19 „ 20 ...	4·4 N	3·5 W	3·4 N	4·1 W	2·7 N	2·1 W	0·1 S	3·1 W	1·3 N	0·0	0·5 S	0·6 E	0·5 S	1·0 E	0·6 N	0·5 W	1·5 N	2·1 W	2·2 N	1·9 W	5·5 N	4·8 W	4·6 N	5·0 W	2·1 N	2·1 W
20 „ 21 ...	3·1 N	1·2 W	2·7 N	1·7 W	1·7 N	0·7 W	0·4 S	1·4 W	0·8 N	0·6 E	0·9 S	0·9 E	0·1 S	1·2 E	0·1 S	0·3 W	1·2 N	1·0 W	1·4 N	1·1 W	2·9 N	2·5 W	4·1 N	3·7 W	1·4 N	0·9 W
21 „ 22 ...	1·0 N	0·5 E	0·8 N	0·7 E	0·3 N	0·9 E	0·4 S	0·1 E	0·8 N	1·1 E	0·7 S	0·4 W	0·1 S	1·5 E	0·1 S	0·5 E	0·9 N	0·0	0·4 N	0·2 E	0·9 N	0·7 E	2·2 N	0·8 W	0·5 N	0·4 E
22 „ 23 ...	1·2 S	2·3 E	0·3 S	1·5 E	0·4 N	1·6 E	0·3 S	0·9 E	0·3 N	0·9 E	0·2 S	0·6 E	0·6 S	0·8 E	0·2 S	0·9 E	0·1 N	0·1 E	0·8 S	0·9 E	0·1 N	1·3 E	0·9 N	0·9 E	0·1 S	1·1 E
23 „ 24 ...	1·3 S	2·2 E	1·0 S	1·4 E	0·8 N	1·3 E	0·1 S	1·4 E	0·5 S	1·6 E	0·7 S	0·9 E	0·4 S	0·1 W	0·8 S	0·9 E	0·1 N	0·0	0·7 S	1·5 E	2·0 S	2·8 E	0·1 S	1·3 E	0·6 S	1·3 E

Aggregate and Mean Velocities and Relative Frequency of Different Winds, 1909

TABLE VIe.—*Showing for the year 1909 the sums of the Velocities, and the Mean Velocities in miles per hour, of the Winds which blew in each Month, from each of the sixteen Principal Directions and also the number of hourly Observations which those sums comprise; the latter numbers indicating the Relative Frequency of the same Wind (as to direction) in the several Months, and of different Winds during the same Month.*

1909.	N.			N. N. E.			N. E.			E. N. E.			E.			E. S. E.			S. E.			S. S. E.		
Month.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.
	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.
January ...	664	95	7·0	550	98	5·6	122	24	5·1	369	58	6·4	47	8	5·9	39	9	4·3	0	0	0·0	0	0	0·0
February ...	261	39	6·7	297	54	5·5	239	39	6·1	368	57	6·5	82	20	4·1	203	30	6·8	25	6	4·2	11	3	3·7
March ...	307	44	7·0	319	54	5·9	96	15	3·7	190	37	5·1	47	11	4·3	109	15	7·3	23	3	7·7	111	17	6·5
April ...	20	5	4·0	236	51	4·6	86	18	4·8	217	34	6·4	44	7	6·3	15	4	3·7	0	0	0·0	0	0	0·0
May ...	0	0	0·0	29	6	4·8	0	0	0·0	0	0	0·0	7	1	7·0	19	3	6·3	39	4	9·7	153	12	12·7
June ...	0	0	0·0	0	0	0·0	19	2	9·5	36	4	9·0	33	4	8·2	112	9	12·4	18	2	9·0	752	52	14·5
July ...	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0
August ...	0	0	0·0	20	5	4·0	18	4	4·5	53	9	5·9	0	0	0·0	70	11	6·4	78	9	8·7	105	15	7·0
September ...	18	5	3·6	77	16	4·8	19	6	3·2	50	11	4·5	12	3	4·0	210	26	8·1	134	20	6·7	376	45	8·4
October ...	161	33	4·9	297	58	5·1	101	22	4·6	474	76	6·2	148	26	5·7	130	22	5·9	69	11	6·3	9	3	3·0
November ...	147	29	5·1	222	43	5·2	224	39	5·7	1,422	188	7·6	334	52	6·4	284	43	6·6	83	14	5·9	21	4	5·2
December ...	404	66	6·1	320	60	5·3	341	57	6·0	1,072	139	7·7	147	24	6·1	355	49	7·2	0	0	0·0	23	3	7·7
Year ...	1,982	316	6·3	2,367	445	5·3	1,225	226	5·4	4,251	613	6·9	901	156	5·8	1,546	221	7·0	469	69	6·8	1,561	154	10·1

1909.	S.			S. S. W.			S. W.			W. S. W.			W.			W. N. W.			N. W.			N. N. W.			Number of Observations.	
Month.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Calm.	Variable.
	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.		
January ...	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	579	59	9·8	2,296	180	12·8	2,370	213	11·1	0	0
February ...	0	0	0·0	8	3	2·7	0	0	0·0	5	1	5·0	143	22	6·5	1,226	130	9·4	1,991	163	12·2	1,072	104	10·3	1	0
March ...	79	10	7·9	87	11	7·9	48	7	6·9	166	26	6·4	203	30	6·8	1,346	129	10·4	2,223	192	11·6	1,400	142	9·9	1	0
April ...	15	2	7·5	112	15	7·5	40	7	5·7	597	79	7·6	1,013	103	9·8	2,911	261	11·2	607	86	7·1	334	47	7·1	1	0
May ...	409	23	17·8	690	54	12·8	153	19	8·1	959	131	7·3	1,231	147	8·4	2,366	258	9·2	712	63	11·3	205	22	9·3	1	0
June ...	475	35	13·6	892	82	10·9	461	44	10·5	4,417	330	13·4	1,358	101	13·4	495	45	11·0	45	7	6·4	29	3	9·7	0	0
July ...	0	0	0·0	90	7	12·9	406	38	10·7	7,368	453	16·3	4,698	235	20·0	147	10	14·7	14	1	14·0	0	0	0·0	0	0
August ...	47	8	5·9	45	8	5·6	18	3	6·0	1,659	160	10·4	3,575	311	11·5	1,451	169	8·6	129	18	7·2	83	14	5·9	0	0
September ...	206	24	8·6	272	35	7·8	259	30	8·6	723	91	7·9	1,229	144	8·5	1,394	163	8·6	508	63	8·1	211	36	5·9	2	0
October ...	0	0	0·0	12	5	2·4	0	0	0·0	1	1	1·0	90	14	6·4	952	105	9·1	2,113	233	9·1	1,039	132	7·9	1	2
November ...	37	6	6·2	21	7	3·0	4	1	4·0	18	4	4·5	116	14	8·3	699	81	8·6	889	88	10·1	904	107	8·4	0	0
December ...	58	6	9·7	42	6	7·0	0	0	0·0	16	4	4·0	97	14	6·9	861	99	8·7	1,217	111	11·0	1,110	105	10·6	1	0
Year ...	1,326	114	11·6	2,271	233	9·7	1,389	149	9·3	15,929	1,280	12·4	13,753	1,135	12·1	14,427	1,509	9·6	12,744	1,205	10·6	8,757	925	9·5	8	2

Velocity of Wind, 1909.

DINES' ANEMOGRAPH.

TABLE VI*f*.—*Mean Velocity of the Wind, in miles per hour, for each day of Bombay Civil Time, also the Mean Monthly Velocity, and its variation from the mean of the year.*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
1 ...	7·5	6·6	6·6	6·6	6·7	**5·7**	12·1	**11·0**	5·6	5·1	4·7	**9·5**
2 ...	6·0	6·8	**3·4**	5·0	4·7	5·8	12·5	10·1	4·3	**7·2**	5·1	7·4
3 ...	8·8	7·7	4·3	6·0	5·2	7·1	8·5	9·7	4·5	5·4	**3·4**	9·0
4 ...	5·0	4·8	6·8	4·6	7·7	6·2	**7·6**	8·3	6·2	7·0	4·5	4·7
5 ...	5·5	6·6	**9·8**	4·6	8·1	6·2	7·8	5·6	3·7	6·7	4·7	4·6
6 ...	5·4	5·6	7·5	5·2	8·0	7·3	8·4	7·5	8·3	6·8	4·8	5·8
7 ...	5·2	6·1	8·4	5·1	5·8	8·8	9·9	7·8	**10·1**	7·2	5·2	5·7
8 ...	4·2	7·0	7·6	5·0	7·5	6·5	8·7	9·1	9·0	6·5	4·9	5·0
9 ...	5·2	8·6	5·3	6·7	12·5	7·1	10·6	8·4	7·0	6·6	4·2	6·2
10 ...	5·0	5·6	8·6	5·9	**14·6**	9·2	12·5	8·5	6·5	5·5	7·3	4·5
11 ...	8·1	4·1	8·4	6·4	7·3	10·7	12·7	7·3	5·7	4·7	4·9	4·3
12 ...	5·8	3·7	5·7	**7·0**	4·5	10·2	13·5	7·1	6·1	4·4	4·8	**3·2**
13 ...	4·3	**3·4**	4·1	6·5	4·8	8·4	12·5	5·0	4·1	**3·0**	6·4	7·2
14 ...	**3·8**	3·8	4·0	6·7	5·2	6·0	...	6·7	5·0	5·3	6·0	4·2
15 ...	4·5	4·2	7·9	6·8	4·9	6·6	10·6	6·0	5·2	5·0	5·4	9·2
16 ...	4·7	4·9	6·0	6·8	5·0	7·4	14·2	6·0	5·5	4·5	5·1	4·4
17 ...	4·9	5·4	5·0	**4·2**	4·5	8·5	14·2	6·2	6·2	4·6	4·6	5·7
18 ...	6·0	4·3	5·0	4·5	5·7	10·3	12·7	5·8	6·1	3·4	5·1	4·1
19 ...	6·0	5·0	6·2	4·9	6·7	8·7	11·8	4·9	5·4	3·8	5·5	4·6
20 ...	7·6	3·9	4·8	5·8	6·5	8·9	9·0	5·3	6·0	4·9	4·9	5·2
21 ...	6·2	5·1	5·4	5·5	5·0	8·2	8·4	5·5	4·5	5·5	4·8	5·5
22 ...	6·8	5·5	6·3	5·6	5·0	10·1	7·9	**4·3**	7·1	5·7	6·1	4·0
23 ...	5·7	6·6	5·6	6·9	6·0	7·6	12·3	5·0	5·2	6·2	5·7	4·2
24 ...	7·0	7·2	7·9	5·3	6·2	7·6	14·3	6·5	3·5	5·4	5·5	4·0
25 ...	7·6	**10·0**	8·7	5·1	6·0	10·9	12·0	6·4	5·4	5·6	4·5	4·5
26 ...	7·8	8·7	7·6	5·2	5·6	10·7	11·7	6·8	4·3	5·3	6·1	7·4
27 ...	**10·7**	8·2	6·9	5·2	5·2	**13·7**	11·8	5·6	4·4	7·2	5·3	6·8
28 ...	8·3	8·7	6·1	5·9	4·3	11·1	11·5	6·9	**3·3**	6·9	6·0	5·8
29 ...	7·2		4·5	7·0	**4·2**	9·0	**14·5**	6·4	7·5	4·2	**7·5**	4·9
30 ...	7·2		3·9	5·4	6·1	9·3	13·5	4·4	3·4	4·6	7·5	5·7
31 ...	7·2		5·1		5·7		11·4	5·4		4·2		5·3
Monthly Mean ...	6·3	6·0	6·2	5·7	6·3	8·5	**11·3**	6·8	5·6	**5·4**	5·4	5·6
Annual Variation	−0·3	−0·6	−0·4	−0·9	−0·3	+1·9	+4·7	+0·2	−1·0	−1·2	−1·2	−1·0

TABLE VI*g*.—*Showing the mean diurnal inequality of the Velocity of the Wind, in miles per hour, for each month of the year 1909, and for the whole year.*

1909. Bombay Civil Time Hourly Intervals.	January.	February	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
0 to 1...	−2·2	**−2·5**	−0·8	−1·4	−0·4	0·0	0·0	−0·7	−0·3	−1·4	−2·2	**−2·1**	−1·2
1 „ 2...	−1·5	−2·4	−1·2	−1·4	−0·7	−0·2	+0·1	−0·3	−0·5	−1·8	−2·1	−1·7	−1·1
2 „ 3...	−1·5	−1·8	−0·6	−1·2	−0·4	−0·3	+0·3	−0·2	−0·2	−1·2	−1·5	−1·6	−0·8
3 „ 4...	−1·9	−1·3	−0·8	−1·7	−0·4	−0·5	+0·2	−0·6	−0·2	−1·3	−0·9	−1·3	−0·9
4 „ 5...	−2·3	−1·7	−1·5	−2·3	−0·6	−0·7	+0·2	0·0	+0·2	−1·8	−0·8	−1·2	−1·0
5 „ 6...	−2·3	−1·9	−1·7	−2·6	−1·1	−0·3	+0·5	−0·9	−0·1	**−1·9**	−0·5	−1·3	−1·2
6 „ 7...	**−2·7**	−1·9	−2·1	**−2·8**	−1·0	+0·2	+0·3	−0·5	−0·7	−1·6	+0·1	−1·0	−1·1
7 „ 8...	−2·4	−1·9	**−2·4**	−1·9	**−1·2**	+0·1	+0·2	−0·7	−0·9	−1·4	+0·5	−0·8	−1·1
8 „ 9...	−1·8	−1·7	−1·7	−1·5	−0·8	+0·2	+0·4	**−1·0**	−0·5	−0·7	+0·8	−0·2	−0·7
9 „ 10...	−1·5	−1·3	−2·1	−1·6	−0·4	+0·2	+0·2	−0·8	−0·1	−1·0	+0·3	−0·3	−0·7
10 „ 11...	−1·4	−1·5	−1·5	−0·4	−0·1	+0·7	+0·1	−0·4	−0·2	−1·0	−1·2	−1·2	−0·7
11 „ 12...	−0·3	−0·5	+0·4	+0·8	+0·4	+0·3	−0·4	−0·1	+0·2	0·0	−1·6	−1·1	−0·2
12 „ 13...	+0·8	+1·3	+1·6	+2·0	+1·0	+0·1	−0·1	+0·5	+1·0	+1·4	−0·2	−0·1	+0·8
13 „ 14...	+2·2	+2·6	+2·2	+3·1	+1·7	+0·2	−0·1	+1·4	+1·4	+2·5	+1·1	+1·0	+1·6
14 „ 15...	+3·2	+3·3	+3·0	+3·8	+2·0	+0·6	+0·1	+1·7	+1·6	+3·2	+1·8	+1·8	+2·2
15 „ 16...	+3·7	+3·5	**+3·2**	**+4·2**	**+2·4**	**+1·0**	+0·6	**+1·7**	**+1·9**	**+3·3**	+2·1	+2·0	**+2·5**
16 „ 17...	+3·6	**+3·8**	+3·1	+4·1	+2·2	+0·6	**+0·8**	+1·0	+1·2	+3·3	+2·2	+2·6	+2·4
17 „ 18...	**+3·7**	+3·5	+2·6	+3·3	+1·5	+0·3	+0·4	+0·6	+0·8	+2·4	+2·5	+2·8	+2·0
18 „ 19...	+3·7	+3·1	+1·8	+1·9	+0·6	−0·3	−0·5	+0·1	+0·5	+2·2	**+2·7**	**+2·8**	+1·5
19 „ 20...	+3·3	+2·5	+1·2	+0·7	−0·6	−0·8	−0·4	−0·1	0·0	+1·1	+2·0	+2·6	+1·0
20 „ 21...	+1·6	+1·0	+0·3	−0·4	−1·1	−0·6	−0·9	−0·2	−0·8	+0·1	−0·3	+1·5	0·0
21 „ 22...	−0·2	−0·9	−0·5	−1·2	−1·1	−0·4	**−1·0**	−0·5	**−1·2**	−0·6	−1·7	−0·2	−0·8
22 „ 23...	−1·9	−1·4	−0·6	−1·6	−1·0	**−0·9**	−0·5	−0·7	−1·0	−1·2	−2·0	−1·4	−1·2
23 „ 24...	−2·1	−1·8	−0·7	−1·6	−0·9	−0·6	−0·1	−0·5	−1·1	−1·5	**−2·3**	−2·0	**−1·3**
Range ...	6·4	6·3	5·6	7·0	3·6	1·9	1·8	2·7	3·1	5·2	5·0	4·9	3·8

	Miles.
The mean velocity for June to August	8·9
The mean velocity for September to May	5·8
The mean velocity for the year	6·6

Temperature of the Ground, 1909.

TABLE VII*a*.—*Showing for each month the Mean Temperature of the Ground in the thermometer shed and its Annual Variation at the respective depths of 1, 9, 20, 60 and 132 inches below the surface.*

Month.	1 Inch		9 Inches.		20 Inches.		60 Inches.		132 Inches.	
	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.	Mean Temperature.	Excess over the yearly Mean.
	°	°	°	°	°	°	°	°	°	°
January ...	**74·9**	−6·3	**77·4**	−5·2	82·2	−3·3	84·7	−1·2	84·6	−0·2
February ...	76·4	−4·8	77·6	−5·0	**81·3**	−4·2	**83·7**	−2·2	84·0	−0·8
March ...	81·1	−0·1	81·3	−1·3	83·7	−1·8	84·1	−1·8	**83·9**	−0·9
April ...	83·6	+2·4	83·9	+1·3	85·7	+0·2	85·3	−0·6	83·9	−0·9
May ...	**87·4**	+6·2	**87·4**	+4·8	89·0	+3·5	87·0	+1·1	84·4	−0·4
June ...	85·4	+4·2	87·1	+4·5	**89·9**	+4·4	**88·5**	+2·6	85·4	+0·6
July ...	81·7	+0·5	84·3	+1·7	87·6	+2·1	88·1	+2·2	**86·1**	+1·3
August ...	82·2	+1·0	83·8	+1·2	86·6	+1·1	86·8	+0·9	85·9	+1·1
September ...	81·1	−0·1	83·2	+0·6	86·2	+0·7	86·2	+0·3	85·3	+0·5
October ...	82·4	+1·2	83·5	+0·9	85·8	+0·3	85·8	−0·1	84·9	+0·1
November ...	80·8	−0·4	82·3	−0·3	85·1	−0·4	85·5	−0·4	84·8	...
December ...	77·7	−3·5	79·9	−2·7	83·4	−2·1	84·9	−1·0	84·5	−0·3
Year ...	81·2		82·6		85·5		85·9		84·8	

TABLE VII*b*.—*Showing for each of the five observation hours and the Mean of the day, the Temperature of the Ground exposed to the direct rays of the Sun at the depths of 1 inch and 8 inches below the surface.*

Month.	1 Inch.						8 Inches.					
	Observation Hours.					Mean of five observation hours.	Observation Hours.					Mean of five observation hours.
	6	10	14	16	22		6	10	14	16	22	
	°	°	°	°	°		°	°	°	°	°	
January ...	71·2	83·5	102·3	96·9	78·5	86·5	77·1	76·7	77·4	78·1	78·8	**77·6**
February ...	73·5	87·0	107·0	104·9	82·3	90·9	79·7	79·0	79·8	80·9	81·8	80·2
March ...	79·2	96·1	113·0	110·8	87·8	97·4	86·6	85·7	86·8	88·1	89·0	87·2
April ...	84·3	97·9	119·4	115·9	90·9	101·7	93·2	92·4	93·9	95·6	96·4	94·3
May ...	89·6	99·3	120·5	113·4	94·1	**103·4**	99·0	98·2	100·2	101·7	102·5	**100·3**
June ...	84·7	89·0	95·5	93·1	85·9	89·7	89·5	88·9	89·8	90·6	91·0	90·0
July ...	80·4	83·1	87·3	85·7	82·1	**83·7**	82·8	82·3	83·2	83·7	84·1	83·2
August ...	82·2	86·5	96·8	94·8	85·7	89·2	85·0	84·4	85·9	86·9	87·8	86·0
September ...	81·3	84·3	91·1	89·0	83·9	85·9	83·3	82·6	83·5	84·4	84·7	83·7
October ...	82·5	92·5	112·8	106·6	89·3	96·7	85·1	84·4	85·8	87·0	87·7	86·0
November ...	78·2	94·3	118·5	102·6	86·5	96·0	82·8	82·2	83·2	84·1	84·9	83·4
December ...	75·1	90·6	114·0	94·5	81·7	91·2	79·8	79·4	80·1	80·6	81·0	80·2
Year ...	80·2	90·3	106·5	100·7	85·7	92·7	85·3	84·7	85·8	86·8	87·5	86·0

In the month of April there has been a change in the thermometer at the depth of 1 inch below surface.

Maxima and Minima of different Meteorological Elements, 1909.

TABLE VIII.—*Showing the individual observations in each month of the year, indicating the greatest and the least values of the following elements, viz., Height of Barometer (corrected for Temperature); Temperature of Air; Pressure of Vapour; Additional Capacity of Air; and Ground Temperatures 1 inch and 8 inches below the surface (exposed to solar rays).*

1909.	Height of Barometer.			Temperature of Air.			Pressure of Vapour.			Additional Capacity.			Ground Thermometer 1 inch deep.			Ground Thermometer 8 inches deep.		
Month.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.
	In.	In.	In.	°	°	°	In.	In.	In.	In.	In.	In.	°	°	°	°	°	°
January ...	30·054	29·731	0·323	80·5	62·4	18·1	0·745	0·315	0·430	0·484	0·043	0·441	105·2	66·4	38·8	81·2	74·9	6·3
February ...	·053	·801	·252	84·8	65·6	19·2	·871	·402	·469	·660	·036	·624	110·2	69·0	41·2	84·9	75·1	9·8
March ...	29·991	·738	·253	87·1	71·0	16·1	·900	·338	·562	·682	·051	·631	117·1	75·3	41·8	92·7	82·2	10·5
April ...	·951	·637	·314	89·9	74·0	15·9	1·004	·694	·310	·581	·078	·503	123·4	80·3	43·1	99·9	88·8	11·1
May ...	·922	·518	·404	91·6	79·9	11·7	·017	·722	·295	·541	·108	·433	124·2	86·5	37·7	105·6	95·5	10·1
June ...	·856	·453	·403	91·6	74·2	17·4	·051	·808	·243	·514	·031	·483	124·8	77·5	47·3	106·1	80·8	25·3
July ...	·828	·517	·311	85·7	75·4	10·3	·008	·796	·212	·236	·025	·211	96·2	76·4	19·8	87·0	79·8	7·2
August ...	·888	·579	·309	85·5	75·6	9·9	0·973	·753	·220	·363	·030	·333	111·7	76·8	34·9	92·9	79·8	13·1
September ...	·917	·549	·368	84·4	74·0	10·4	·985	·726	·259	·351	·018	·333	104·2	77·8	26·4	86·8	79·1	7·7
October ...	·979	·723	·256	88·2	73·2	15·0	1·013	·549	·464	·572	·041	·531	117·0	78·2	38·8	89·8	81·8	8·0
November ...	30·030	754	·276	88·2	69·2	19·0	0·979	·413	·566	·860	·048	·812	120·5	73·8	46·7	89·8	79·3	10·5
December ...	·067	·726	·341	86·0	66·4	19·6	·848	·385	·463	·758	·037	·721	118·6	72·0	46·6	82·8	78·1	4·7
Year ...	30·067	29·453	0·614	91·6	62·4	29·2	1·051	0·315	0·736	0·860	0·018	0·842	124·8	66·4	58·4	106·1	74·9	31·2

Extent of Cloudy Sky, 1909.

TABLE IX.—*Means of estimations made at 6, 10, 14, 16 and 22 hours daily, the whole sky being reckoned as 10·0.*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	1·4	...	1·4	4·2	1·4	3·8	9·6	10·0	8·4	1·2	0·8	...
2	3·4	...	1·4	2·2	...	7·0	9·6	10·0	6·8	5·6	1·8	0·2
3	2·4	...	2·0	1·4	2·0	6·4	6·8	8·4	8·8	8·0	2·2	...
4	2·0	1·4	2·8	0·6	5·4	10·0	9·4	8·4	8·2	4·2	4·4	0·2
5	0·8	...	...	2·0	5·4	9·0	9·4	9·2	10·0	3·0	0·2	...
6	0·2	...	0·6	0·6	3·6	4·8	9·0	7·0	9·4	2·6	...	0·2
7	...	0·4	...	0·6	5·6	9·2	8·8	6·4	10·0	2·0	1·4	...
8	...	0·2	...	1·4	7·6	8·8	10·0	8·2	8·0	1·8	1·2	0·4
9	...	2·0	...	2·2	2·6	9·2	10·0	5·6	6·8	6·6	...	...
10	2·8	0·2	...	1·0	1·2	10·0	10·0	6·0	6·0	5·0	0·2	0·4
11	0·4	...	...	2·2	2·2	10·0	9·4	4·2	3·8	3·2	...	0·4
12	0·2	...	...	1·6	1·0	9·0	9·8	4·8	4·0	2·6	...	7·2
13	0·2	1·4	...	2·6	1·6	9·2	10·0	3·4	3·4	2·6	...	6·4
14	...	5·0	1·0	...	1·2	6·2	9·8	4·4	5·0	3·4	...	2·0
15	...	0·4	...	...	2·2	6·8	9·4	5·8	5·6	0·4	...	...
16	0·4	1·2	..	3·0	2·0	5·6	9·8	6·8	8·0	...	...	...
17	0·4	1·0	3·0	4·4	3·2	7·6	9·6	6·0	6·6	0·8	1·4	...
18	0·6	0·8	...	3·2	3·0	5·2	9·2	7·4	4·4	...	...	0·4
19	3·8	...	4·2	3·6	2·0	7·0	9·4	5·6	5·8	1·6	..	0·2
20	0·2	...	6·8	3·8	2·8	6·6	10·0	9·2	6·6	0·4	1·4	0·4
21	...	...	3·2	3·2	2·2	6·6	7·8	8·6	8·8	...	3·0	0·4
22	...	2·0	0·8	2·6	2·0	9·2	8·2	8·6	9·6	...	...	0·8
23	...	...	4·0	0·4	2·6	4·6	9·8	9·6	9·8	...	...	0·6
24	...	2·4	4·0	1·6	3·0	8·0	7·8	9·4	10·0	...	...	2·4
25	...	...	1·8	0·2	3·2	8·0	9·2	9·0	10·0	...	...	0·6
26	...	...	...	0·6	3·0	8·0	9·8	7·2	9·6	2·4	...	5·8
27	...	...	0·8	2·4	2·4	10·0	8·8	6·2	8·2	3·0	...	0·6
28	...	0·8	2·2	3·4	2·6	10·0	8·6	5·6	8·6	0·2	...	4·6
29	...		3·4	2·2	3·0	9·6	10·0	9·0	8·4	1·4	2·2	6·0
30	...		4·4	...	6·0	8·2	10·0	9·6	2·6	2·2	...	4·0
31	...		0·4		2·0		10·0	8·4		1·4		2·0
Monthly Mean.	0·6	0·7	1·6	1·9	2·8	7·8	9·3	7·4	7·4	2·1	0·7	1·5
Annual Variation ...	−3·0	−2·9	−2·0	−1·7	−0·8	+4·2	+5·7	+3·8	+3·8	−1·5	−2·9	−2·1

For the days which have no entry, 0·0 is to be understood.

Mean of the months from January to April, November and December ... ... 1·2

Mean of the months from May to October ... ... 6·1

Mean for the year ... ... 3·6

Meteorological Data, 1909.

Table X.—Five-day Means of different Meteorological Elements.

Number of Five-day Period.	Barometric Pressure.	Temperature of the air.	Pressure of Vapour.	Additional Capacity of the year.	* Rainfall.	North or South Component of Wind.	East or West Component of Wind.	Number of Five-day Period.	Barometric Pressure.	Temperature of the air.	Pressure of Vapour.	Additional Capacity of the Air.	* Rainfall.	North or South Component of Wind.	East or West Component of Wind.
	In.	°	In.	In.	In.	Miles.	Miles.		In.		In.	In	In.	Miles.	Miles.
1 ...	29·850	73·8	0·574	0·264	....	8·1 N	3·2 W	38 ...	29·612	79·5	0·913	0·096	9·67	4·4 S	12·4 W
2 ...	·903	73·5	·661	·169	...	5·2 N	3·4 W	39 ...	·589	79·0	·899	·089	10·35	6·1 S	17·5 W
3 ...	·964	70·1	·515	·215	...	5·6 N	1·8 W	40 ...	·676	80·4	·892	·148	0·92	4·1 S	18·9 W
4 ...	·917	71·8	·619	·164	...	6·6 N	3·0 W	41 ...	·740	80·2	·900	·133	1·63	3·4 S	14·8 W
5 ...	·933	72·7	·623	·185	...	8·0 N	3·9 W	42 ...	·656	80·3	·902	·132	1·88	3·4 S	18·0 W
6 ...	·931	70·3	·486	·259	...	10·1 N	4·0 W	43 ...	·652	77·8	·879	·072	6·95	2·6 S	16·2 W
7 ...	·921	70·4	·558	·190	...	7·0 N	2·8 W	44 ...	·732	80·3	·891	·146	0·39	1·8 S	11·1 W
8 ...	·952	72·5	·575	·227	...	6·0 N	2·5 W	45 ...	·809	81·4	·871	·211	0·03	0·9 S	10·4 W
9 ...	·909	73·5	·673	·157	..	2·8 N	2·3 W	46 ...	·818	81·0	·846	·214	0·06	2·5 N	7·5 W
10 ...	·881	75·3	·692	·189	...	3·1 N	2·9 W	47 ...	·732	79·4	·855	·139	2·27	0·6 N	4·5 W
11 ...	·890	74·1	·657	·190	...	4·4 N	4·0 W	48 ...	·734	80·8	·832	·159	1·19	1·1 N	8·5 W
12 ...	·865	76·5	·565	·352	...	10·0 N	4·7 W	49 ...	·734	79·7	·890	·124	2·23	2·1 S	2·4 W
13 ...	·857	77·9	·695	·266	...	6·4 N	4·1 W	50 ...	·659	79·2	·898	·100	5·77	0·5 S	6·5 W
14 ...	·823	77·9	·645	·316	...	8·4 N	4·4 W	51 ...	·780	80·2	·857	·176	0·75	0·1 S	8·2 W
15 ...	·832	78·6	·720	·262	...	1·5 N	3·6 W	52 ...	·808	79·7	·813	·193	0·24	0·1 N	4·2 W
16 ...	·839	78·9	·755	·237	...	2·2 N	3·4 W	53 ...	·761	78·8	·847	·139	2·87	1·3 S	3·9 W
17 ...	·863	79·0	·731	·265	...	6·9 N	6·1 W	54 ...	·805	77·1	·857	·075	5·20	0·7 S	3·0 W
18 ...	·852	80·1	·786	·245	...	3·5 N	4·7 W	55 ...	·814	79·7	·844	·171	0·28	3·5 N	3·6 W
19 ...	·830	79·6	·799	·215	...	2·8 N	4·4 W	56 ...	·830	80·9	·873	·181	...	5·8 N	6·2 W
20 ...	·810	80·1	·777	·255	...	3·8 N	5·2 W	57 ...	·816	80·3	·866	·169	...	4·9 N	4·0 W
21 ...	·838	80·3	·761	·272	...	4·7 N	6·9 W	58 ...	·809	81·3	·854	·320	...	4·1 N	1·6 W
22 ...	·769	82·0	·800	·298	...	1·4 S	6·6 W	59 ...	·822	80·2	·820	·214	...	3·8 N	1·0 W
23 ...	·794	82·3	·816	·292	...	2·1 N	7·7 W	60 ...	·897	78·6	·785	·197	...	6·0 N	1·5 W
24 ...	·780	83·0	·874	·258	...	3·3 N	6·6 W	61 ...	·848	79·7	·839	·179	...	2·5 N	0·9 W
25 ...	·720	84·4	·881	·301	...	1·6 N	5·4 W	62 ...	·860	80·2	·833	·202	...	2·3 N	0·4 W
26 ...	·672	84·5	·896	·293	...	4·1 S	6·3 W	63 ...	·893	79·9	·724	·301	...	3·7 N	0·1 E
27 ...	·779	84·9	·889	·313	...	2·6 S	5·8 W	64 ...	·904	77·7	·684	·270	...	3·8 N	0·4 E
28 ...	·802	85·2	·897	·320	...	2·2 N	8·1 W	65 ...	·863	77·8	·703	·254	...	3·2 N	0·1 E
29 ...	·813	85·6	·910	·320	...	2·2 N	8·1 W	66 ...	·906	76·9	·648	·283	...	4·5 N	0·7 E
30 ...	·761	86·5	·923	·342	...	0·4 S	7·3 W	67 ...	·913	77·6	·615	·339	...	5·0 N	4·4 E
31 ...	·618	85·7	·947	·289	2·39	1·4 N	6·0 W	68 ...	·840	75·1	·596	·280	...	5·8 N	1·4 E
32 ...	·582	84·6	·971	·222	2·28	3·0 S	8·8 W	69 ...	·875	74·6	·713	·146	...	4·8 N	2·8 W
33 ...	·635	83·7	·958	·199	1·77	5·2 S	11·1 W	70 ...	·934	74·0	·657	·187	...	2·7 N	0·9 W
34 ...	·789	84·2	·929	·246	0·43	4·7 S	11·5 W	71 ...	·944	75·1	·715	·159	...	3·7 N	0·7 W
35 ...	·672	82·7	·937	·183	3·17	8·4 S	4·4 W	72 ...	·954	74·9	·710	·157	...	4·2 N	1·6 W
36 ...	·581	80·4	·921	·117	6·52	10·0 S	8·3 W	73 ...	·954	76·3	·690	·223	...	4·8 N	0·6 E
37 ...	·625	81·5	·919	·158	1·98	5·2 S	13·9 W								

* Five-day sums, *not means*.

Barometric Pressure, 1910.

TABLE Ia.—*Daily and Monthly Means.*

Height of Barometer above mean sea-level = 37 feet.

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	29·872	29·899	29·852	29·782	29·829	**29·711**	29·665	29·633	29·705	29·644	29·831	29·916
2 ...	·896	·949	·840	·792	·827	·710	·569	·627	·700	**·613**	·878	·933
3 ...	·887	·991	·888	·786	·813	·671	·573	·566	·717	·730	·899	·916
4 ...	·907	**·993**	**·898**	·788	·823	·628	·608	**·539**	·717	·829	·846	·937
5 ...	·926	·955	·889	·791	**·836**	·605	·567	·557	·711	·831	·836	·958
6 ...	·911	·910	·855	·823	·827	·641	·550	·659	·676	·821	**·766**	·974
7 ...	·868	·876	·842	·787	·800	·669	·668	·658	·657	·836	·766	·968
8 ...	·797	·858	·851	**·721**	·807	·683	·774	·621	·693	·849	·791	·914
9 ...	·802	·851	·879	·768	·770	·672	·781	·642	·714	·867	·812	·915
10 ...	·813	·838	·883	·762	·796	·659	·753	·702	·716	·854	·812	·918
11 ...	**·793**	·845	·868	·736	·820	·640	·780	·734	·749	·866	·796	**·910**
12 ...	·824	·839	·876	·763	·821	·624	**·823**	·680	·770	·857	·838	·949
13 ...	·875	·858	·892	·745	·795	·651	·809	·681	·763	·842	·876	·977
14 ...	·918	·878	·884	·749	·798	·671	·766	·704	·755	·809	·834	30·010
15 ...	·890	·869	·849	·748	·784	·684	·723	·751	·776	·813	·904	29·999
16 ...	·943	·849	·856	·765	·831	·691	·755	**·754**	·774	·805	·903	30·017
17 ...	·962	·840	·873	·785	·795	·680	·785	·715	·775	·789	·918	29·975
18 ...	·892	**·817**	·847	·769	·802	·645	·769	·699	·782	·821	·947	·937
19 ...	·877	·832	·824	·788	·836	·597	·712	·728	**·810**	·857	·955	·973
20 ...	·916	·847	·776	·819	·824	·575	·708	·736	·773	·864	·960	·976
21 ...	·948	·849	·788	·811	·811	·562	·763	·717	·748	·856	·970	·984
22 ...	·955	·841	·861	·789	·805	·507	·787	·736	·772	·867	**·987**	·975
23 ...	·940	·817	·856	·773	·807	·453	·762	·731	·781	·867	·977	·961
24 ...	·963	·869	·781	·785	·796	·433	·687	·669	·758	·851	·941	·964
25 ...	·940	·880	·779	·830	·789	**·403**	·666	·673	·725	·833	·911	30·001
26 ...	·920	·846	·809	**·855**	·788	·454	·684	·723	·735	·865	·907	**·036**
27 ...	·935	·834	·775	·819	·781	·594	·694	·728	·711	**·878**	·912	29·986
28 ...	·954	·845	**·741**	·804	·767	·631	·635	·696	·625	·837	·911	·983
29 ...	**·975**		·777	·801	·759	·651	·558	·719	·545	·812	·915	·968
30 ...	·950		·786	·818	·752	·698	**·545**	·738	**·534**	·802	·920	·965
31 ...	·913		·769		**·718**		·591	·720		·808		·966
Monthly Mean ...	29·902	29·871	29·837	29·786	29·801	**29·616**	29·694	29·685	29·723	29·823	29·885	**29·933**
Annual Variation.	+·103	+·072	+·038	−·013	+·002	**−·183**	−·105	−·114	−·076	+·024	+·086	+·164

Annual mean ... ... In. 29·799

TABLE Ib.—*Showing the mean diurnal inequality of the Barometric Pressure for each month of the year 1910, and for the whole year.*

Unity = 0·001 inch.

1910. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 7	+ 4	+ 2	+ 7	+ 4	+ 3	+ 8	+ 9	+ 8	+ 11	+ 3	− 2	+ 2	+ 5
1 7	− 5	− 11	− 9	− 8	− 11	− 9	− 7	− 8	− 5	− 12	− 13	− 8	− 9
7	− 18	− 25	− 22	− 21	− 23	− 25	− 19	− 23	− 20	− 23	− 23	− 22	− 22
3 7	− 24	− 28	− 28	− 27	− 26	− 29	− 25	− 32	− 27	− 28	− 30	− 29	− 28
4 7	− 27	− 27	− 26	− 22	− 21	− 24	− 25	− 30	− 24	− 24	− 23	− 26	− 25
5 7	− 19	− 15	− 11	− 8	− 10	− 16	− 20	− 23	− 17	− 12	− 11	− 15	− 15
6 7	0	+ 5	+ 7	+ 8	+ 8	0	− 4	− 7	− 4	+ 6	+ 9	+ 3	+ 3
7 7	+ 22	+ 27	+ 30	+ 20	+ 28	+ 17	+ 12	+ 10	+ 15	+ 30	+ 33	+ 20	+ 23
8 7	+ 47	+ 48	+ 52	+ 51	+ 44	+ 31	+ 24	+ 25	+ 34	+ 48	+ 52	+ 51	+ 42
9 7	**+ 66**	+ 66	**+ 66**	**+ 60**	+ 55	**+ 40**	+ 33	+ 34	+ 44	**+ 60**	**+ 67**	**+ 65**	**+ 55**
10 7	+ 66	**+ 67**	+ 65	+ 57	**+ 56**	+ 36	**+ 35**	**+ 37**	**+ 45**	+ 56	+ 58	+ 62	+ 53
11 7	+ 49	+ 49	+ 50	+ 47	+ 45	+ 30	+ 29	+ 32	+ 36	+ 35	+ 37	+ 43	+ 40
12 7	+ 18	+ 18	+ 23	+ 26	+ 27	+ 19	+ 18	+ 19	+ 15	+ 6	+ 10	+ 12	+ 18
13 7	− 16	− 11	− 4	− 4	+ 4	+ 2	+ 4	+ 3	− 10	− 20	− 21	− 20	− 8
14 7	− 41	− 36	− 31	− 29	− 20	− 16	− 11	− 15	− 31	− 42	− 41	− 42	− 30
15 7	− 54	− 50	− 51	− 46	− 39	− 34	− 24	− 29	− 45	**− 53**	**− 50**	**− 52**	− 44
16 7	**− 55**	**− 51**	**− 55**	**− 56**	**− 51**	**− 40**	**− 32**	**− 38**	**− 48**	− 51	− 50	− 50	**− 48**
17 7	− 46	− 44	− 52	− 53	− 48	− 38	− 31	− 34	− 40	− 40	− 39	− 41	− 42
18 7	− 32	− 33	− 40	− 40	− 36	− 23	− 21	− 22	− 24	− 24	− 24	− 25	− 29
19 7	− 12	− 14	− 22	− 22	− 21	− 4	− 6	− 6	− 4	− 2	− 4	− 3	− 10
20 7	+ 10	+ 5	− 2	− 3	− 5	+ 12	+ 7	+ 11	+ 14	+ 18	+ 13	+ 15	+ 8
21 7	+ 23	+ 15	+ 14	+ 15	+ 9	+ 22	+ 18	+ 27	+ 27	+ 26	+ 22	+ 23	+ 20
22 7	+ 24	+ 19	+ 20	+ 24	+ 17	+ 29	+ 23	+ 33	+ 28	+ 25	+ 21	+ 24	+ 24
23 7	+ 15	+ 11	+ 15	+ 20	+ 12	+ 22	+ 19	+ 26	+ 21	+ 19	+ 14	+ 16	+ 17
Range ...	121	118	121	116	107	80	67	75	93	113	117	117	103

Temperature of the Air, 1910.

TABLE IIa.—*Daily and Monthly Means.*

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1 ...	75·0	77·0	75·1	82·4	82·4	**85·9**	81·2	79·3	78·4	78·9	80·2	73·7
2 ...	74·1	**78·5**	74·3	81·6	**82·0**	85·4	81·5	**81·6**	79·2	81·3	**80·4**	74·1
3 ...	73·0	77·9	74·5	80·8	82·2	83·4	81·6	79·5	80·8	81·0	79·6	74·5
4 ...	73·0	77·2	**73·9**	80·9	82·1	83·3	81·5	78·3	80·8	81·1	78·1	75·7
5 ...	75·8	77·0	74·6	82·0	82·3	81·8	81·1	**77·8**	81·2	80·8	79·1	75·5
6 ...	76·7	76·9	74·9	82·0	82·9	82·2	81·0	80·6	81·0	80·5	78·6	75·6
7 ...	75·5	77·7	76·0	82·1	83·2	83·5	81·7	80·1	80·8	80·0	78·7	75·8
8 ...	74·6	77·3	76·0	83·5	82·8	83·0	81·5	80·1	**81·3**	80·1	78·1	75·5
9 ...	73·1	76·5	75·4	**83·9**	83·5	82·8	82·5	78·0	81·2	80·6	78·2	74·7
10 ...	72·9	76·9	75·7	81·7	83·6	82·6	82·5	77·9	80·9	79·6	78·8	73·9
11 ...	73·6	76·0	78·1	81·3	82·3	81·2	82·4	79·6	80·9	78·8	78·2	73·9
12 ...	73·4	74·8	79·9	**80·4**	82·2	83·2	82·7	79·4	80·9	79·8	77·4	74·9
13 ...	73·1	74·7	79·6	82·0	82·4	82·7	82·5	79·3	79·7	82·0	77·2	**76·7**
14 ...	75·2	74·5	77·8	81·9	83·3	83·8	82·4	80·2	78·3	81·8	77·5	76·6
15 ...	72·2	**73·0**	78·4	81·2	83·5	84·2	82·4	80·3	76·9	81·2	77·1	75·9
16 ...	68·4	73·6	78·4	80·8	84·0	84·6	82·7	80·7	77·3	79·9	76·7	74·8
17 ...	**67·9**	74·4	79·0	80·9	84·4	84·4	82·7	80·6	78·3	78·8	76·2	73·7
18 ...	69·9	73·7	79·8	81·2	84·3	84·6	82·7	81·3	77·3	78·6	76·3	72·6
19 ...	70·6	73·7	80·5	82·0	84·6	84·9	82·1	81·5	76·2	78·3	76·2	**71·6**
20 ...	71·6	74·0	**82·9**	82·5	84·7	84·1	82·9	80·9	**75·9**	78·8	77·4	72·3
21 ...	72·1	75·9	81·3	82·9	85·0	82·1	**83·7**	79·5	76·0	78·7	77·6	75·2
22 ...	73·3	76·2	79·2	83·5	85·3	79·9	82·8	80·6	78·1	78·6	76·6	74·5
23 ...	73·6	77·2	79·3	82·6	85·3	**78·7**	80·7	81·1	79·5	**78·0**	75·4	73·4
24 ...	73·7	75·2	81·2	82·4	85·3	80·8	82·8	80·0	80·2	78·6	74·8	74·0
25 ...	72·8	74·5	82·3	82·3	85·0	80·6	82·0	80·9	79·6	79·2	74·9	74·8
26 ...	72·8	75·2	81·6	81·7	84·8	81·1	81·4	79·8	80·2	80·4	**73·3**	75·0
27 ...	73·5	75·6	81·9	81·5	85·1	79·3	79·2	80·3	80·6	**82·0**	73·4	73·9
28 ...	73·6	76·5	82·3	80·9	85·1	82·0	80·9	80·5	80·5	81·2	74·7	74·0
29 ...	**76·9**		81·7	81·3	**86·0**	80·9	81·7	81·0	79·7	80·5	75·1	75·1
30 ...	76·5		80·8	82·2	85·6	80·9	80·0	80·0	77·1	80·7	74·8	75·1
31 ...	76·6		81·7		85·7		**78·0**	79·2		80·8		74·7
Monthly Mean ...	**73·5**	75·8	78·6	81·9	**83·9**	82·6	81·8	80·0	79·3	80·0	77·0	74·6
Annual Variation.	−5·6	−3·3	−0·5	+2·8	+4·8	+3·5	+2·7	+0·9	+0·2	+0·9	−2·1	−4·5

Annual mean ... ... 79·1

TABLE IIb.—*Showing the mean diurnal inequality of the Temperature of the Air for each month of the year 1910, and for the whole year.*

1910. Bombay Civil Time.	January.	February	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.	°	°	°	°	°	°	°	°	°	°	°	°	°
0 2	−2·4	−2·6	−2·2	−2·1	−2·1	−1·1	−1·2	−0·8	−1·0	−2·1	−2·4	−2·6	−1·9
1 2	−2·9	−3·3	−2·6	−2·4	−2·3	−1·3	−1·5	−1·0	−1·2	−2·3	−2·8	−3·1	−2·2
2 2	−3·3	−3·5	−3·0	−2·8	−2·5	−1·4	−1·4	−1·1	−1·3	−2·4	−3·2	−3·4	−2·4
3 2	−3·8	−4·0	−3·4	−3·2	−2·8	−1·5	−1·5	−1·2	−1·3	−2·7	−3·7	−3·9	−2·7
4 2	−4·1	−4·4	−3·5	−3·5	−3·0	−1·7	−1·7	−1·2	−1·4	−3·0	−3·9	−4·2	−3·0
5 2	−4·5	−4·8	−4·0	−3·8	**−3·3**	**−2·0**	**−1·9**	−1·3	−1·7	−3·3	−4·2	−4·5	−3·3
6 2	−4·8	−5·1	**−4·3**	**−4·0**	−3·1	−1·9	−1·8	**−1·4**	**−1·8**	**−3·4**	**−4·3**	**−4·8**	**−3·4**
7 2	**−5·0**	**−5·2**	−4·0	−3·1	−2·2	−1·6	−1·6	−1·1	−1·8	−3·0	−4·1	−4·8	−3·1
8 2	−3·5	−3·4	−1·9	−0·8	−0·7	−0·5	−0·6	−0·6	−0·9	−1·7	−2·6	−3·5	−1·7
9 2	−1·7	−1·5	−0·2	+0·8	+0·6	+0·3	+0·2	−0·2	−0·2	−0·5	−1·1	−2·0	−0·5
10 2	+0·8	+1·1	+2·0	+2·4	+2·0	+1·3	+1·1	+0·7	+0·8	+1·4	+1·5	+0·6	+1·3
11 2	+3·0	+3·6	+3·3	+3·3	+2·9	+1·9	+1·3	+1·2	+1·2	+2·9	+3·5	+2·6	+2·6
12 2	+5·0	+5·5	+4·5	+4·3	+3·8	+2·5	+2·1	+1·7	+1·7	+4·3	+5·1	+5·2	+3·8
13 2	+5·8	+6·3	**+4·9**	+4·6	+4·2	+2·7	**+2·2**	+1·7	+2·1	+4·8	+5·9	+6·5	+4·3
14 2	**+6·2**	**+6·4**	+4·9	**+4·8**	**+4·3**	**+2·9**	**+2·5**	**+1·9**	**+2·4**	**+5·0**	**+6·3**	**+6·9**	**+4·5**
15 2	+5·8	+6·0	+4·6	+4·4	+4·1	+2·2	+2·1	+1·5	+2·3	+4·3	+5·7	+6·5	+4·1
16 2	+4·9	+5·4	+4·3	+3·7	+3·6	+1·9	+2·0	+1·5	+1·9	+3·5	+4·5	+5·5	+3·6
17 2	+3·3	+4·0	+3·1	+2·4	+2·3	+1·4	+1·6	+1·0	+1·5	+2·0	+2·6	+3·4	+2·4
18 2	+1·7	+1·9	+1·5	+0·7	+0·4	+0·5	+0·6	+0·5	+0·7	+0·8	+1·4	+1·9	+1·0
19 2	+1·0	+1·0	+0·5	−0·4	−0·7	−0·4	−0·2	−0·1	+0·2	0·0	+0·7	+1·1	+0·2
20 2	+0·5	+0·4	−0·1	−0·9	−1·1	−0·8	−0·4	−0·1	−0·3	−0·3	+0·2	+0·4	−0·2
21 2	−0·2	−0·4	−0·7	−1·3	−1·4	−0·9	−0·8	−0·4	−0·6	−0·8	−0·6	−0·7	−0·7
22 2	−1·0	−1·3	−1·1	−1·6	−1·5	−1·1	−0·8	−0·6	−0·5	−1·2	−1·5	−1·6	−1·1
23 2	−1·8	−2·3	−1·7	−1·9	−1·8	−1·2	−1·1	−0·8	−0·8	−1·8	−2·4	−2·3	−1·7
Range ...	11·2	11·6	9·2	8·8	7·6	4·9	4·4	3·3	4·2	8·4	10·6	11·7	7·9

Temperature of the Air, 1910.

TABLE IIc.—*Showing the Maximum Temperature of Air on each day during the year 1910.*

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1 ...	83·7	**89·1**	85·1	89·1	89·9	91·7	84·4	81·9	81·2	**81·9**	88·1	84·1
2 ...	83·7	88·1	**82·3**	91·2	**89·1**	**95·2**	83·1	85·3	82·9	86·3	**88·2**	85·3
3 ...	83·4	89·1	82·5	89·6	90·2	87·5	84·3	82·6	85·7	85·3	87·3	85·0
4 ...	83·4	86·1	84·0	89·1	90·0	88·9	84·1	79·8	85·7	85·9	88·1	87·5
5 ...	87·6	88·5	85·7	89·1	90·7	85·1	83·3	**79·2**	86·0	85·9	87·4	86·3
6 ...	85·5	87·4	85·6	**87·9**	90·3	85·6	83·9	84·9	86·8	86·6	87·1	87·1
7 ...	83·4	89·1	85·9	89·1	91·2	87·5	85·1	84·1	86·1	86·3	86·7	86·3
8 ...	83·9	88·5	84·7	91·0	89·1	87·1	84·8	83·1	87·0	86·9	84·1	84·3
9 ...	81·9	86·1	83·7	90·4	90·7	87·1	86·1	80·0	**87·1**	87·3	83·1	83·4
10 ...	81·1	88·1	85·1	90·2	90·2	87·8	86·3	80·4	86·7	86·1	85·1	83·6
11 ...	82·9	86·9	93·4	89·2	91·2	85·1	86·6	83·2	86·3	85·4	84·4	83·3
12 ...	82·0	85·9	**93·8**	89·9	91·1	88·4	87·3	82·6	86·9	86·6	85·1	84·1
13 ...	82·3	83·1	89·9	92·4	90·7	87·2	86·6	81·1	82·1	89·0	86·3	**88·3**
14 ...	84·1	84·1	87·3	92·0	90·7	88·7	86·6	84·1	80·6	88·9	85·6	87·1
15 ...	84·1	**82·7**	89·1	91·5	91·1	88·0	86·9	84·1	79·8	88·1	86·6	86·1
16 ...	**76·0**	84·2	85·6	88·7	91·2	89·0	87·3	84·1	81·3	88·3	84·6	84·1
17 ...	79·0	85·2	86·5	88·6	**92·7**	88·9	87·9	85·2	83·3	87·1	84·3	82·1
18 ...	83·5	85·1	85·9	89·0	91·2	89·1	87·9	85·7	81·9	85·5	84·3	81·1
19 ...	81·3	84·4	87·1	88·3	92·2	89·1	86·1	**86·9**	81·3	86·1	84·3	**80·0**
20 ...	83·8	85·0	93·2	90·7	92·2	88·1	87·1	86·9	79·0	87·0	87·1	82·1
21 ...	83·0	87·1	89·4	91·2	91·2	87·6	**89·1**	82·4	79·2	87·0	85·3	85·2
22 ...	84·2	87·3	87·0	**92·6**	92·0	83·1	87·7	84·2	82·4	89·0	85·3	83·7
23 ...	84·5	88·5	87·6	92·5	92·6	82·6	82·1	84·6	84·7	87·2	85·1	82·3
24 ...	84·9	84·1	90·5	91·7	92·4	85·1	87·5	83·6	85·1	89·3	85·2	83·7
25 ...	82·7	83·1	91·2	91·2	92·2	84·3	87·1	85·7	84·5	**90·6**	85·1	83·1
26 ...	83·9	86·4	89·8	89·7	92·2	85·1	85·7	83·1	85·1	86·3	83·3	83·6
27 ...	84·1	87·3	90·2	90·2	92·2	**82·1**	82·0	84·9	86·1	88·9	**82·3**	82·3
28 ...	**88·6**	86·1	92·8	89·6	92·5	85·1	85·7	85·4	86·1	88·5	85·3	83·1
29 ...	86·3		89·1	89·1	92·2	85·1	86·3	85·6	84·1	89·6	85·1	83·0
30 ...	88·1		89·1	89·9	92·5	86·1	86·0	85·6	**78·0**	89·9	84·6	83·1
31 ...	87·1		88·6		92·2		**79·9**	85·9		88·3		82·1
Monthly Mean.	**83·7**	86·3	87·8	90·2	**91·3**	87·0	85·6	83·7	83·8	87·3	85·5	84·1

Annual mean ... ... 86·4
The greatest maximum temperature recorded during the year (that of 2nd June) was ... 95·2

TABLE IId.—*Showing the Minimum Temperature of Air on each day during the year 1910.*

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1 ...	69·7	69·8	67·8	77·8	78·5	81·9	78·4	**75·4**	76·3	75·4	75·4	68·3
2 ...	67·9	**73·3**	69·3	76·2	78·1	**82·3**	78·8	78·4	77·4	**79·2**	75·4	67·9
3 ...	65·4	71·3	71·3	76·8	78·4	77·9	79·4	77·4	76·2	79·1	74·1	69·0
4 ...	66·8	72·5	67·9	75·4	78·0	79·4	78·4	76·6	**79·4**	78·6	72·3	69·8
5 ...	69·3	69·3	68·3	76·6	**77·4**	79·4	80·0	75·4	79·4	78·8	73·7	70·1
6 ...	71·3	70·3	**67·5**	78·4	78·4	78·1	**76·4**	77·4	77·4	77·9	70·3	70·1
7 ...	69·8	71·3	67·7	77·4	80·1	80·4	79·0	77·2	77·4	76·4	73·3	70·3
8 ...	67·3	70·8	70·3	78·4	77·9	77·8	79·2	77·4	78·9	76·4	75·9	70·5
9 ...	69·4	70·5	72·1	**81·4**	78·9	79·4	79·6	75·4	78·4	77·4	75·8	70·3
10 ...	68·5	69·3	70·3	78·4	78·6	80·4	79·4	76·0	77·9	76·4	**76·4**	68·0
11 ...	68·3	70·3	70·9	76·9	79·4	77·9	79·4	75·6	77·6	74·4	75·4	66·9
12 ...	69·5	68·3	73·3	**74·9**	79·0	79·2	79·4	75·4	77·4	75·4	70·8	68·3
13 ...	67·3	71·3	73·5	75·6	79·9	79·4	79·4	76·7	76·4	78·9	70·3	70·8
14 ...	**71·3**	70·3	71·3	75·4	80·4	79·4	78·9	77·1	76·4	77·9	71·3	**71·0**
15 ...	69·3	66·3	72·0	75·4	80·9	81·4	78·9	77·4	75·2	76·9	72·3	70·6
16 ...	66·9	68·0	74·1	75·4	80·9	81·4	79·4	78·9	75·0	75·4	71·8	69·7
17 ...	61·2	67·8	74·6	73·9	80·4	80·6	78·6	76·9	75·4	73·3	70·1	68·3
18 ...	**60·3**	**64·8**	75·2	76·4	80·8	81·4	78·9	78·4	75·2	74·4	71·3	67·3
19 ...	64·3	65·3	76·4	77·4	81·2	81·4	80·0	78·8	73·8	72·9	71·8	68·3
20 ...	64·3	66·4	76·4	76·9	81·9	80·6	**80·4**	76·4	74·9	73·7	72·1	**65·3**
21 ...	64·3	67·3	76·4	77·2	81·3	78·5	80·4	76·7	**73·8**	73·3	71·5	69·3
22 ...	65·4	67·8	75·2	77·9	81·4	77·8	80·4	77·5	75·4	**72·3**	72·3	68·7
23 ...	65·3	68·3	74·4	78·0	81·4	**75·4**	79·2	78·8	76·8	72·3	70·5	68·3
24 ...	65·3	71·3	74·8	77·4	82·2	77·4	79·1	77·9	76·8	73·0	69·3	67·1
25 ...	66·1	70·3	76·9	78·4	81·4	78·4	77·4	**79·0**	76·9	72·5	69·1	69·5
26 ...	65·3	67·7	76·9	78·1	81·4	78·6	78·4	77·9	76·0	75·4	67·8	69·8
27 ...	66·3	66·3	76·0	78·4	81·4	77·6	76·8	77·6	77·4	78·4	**67·3**	68·3
28 ...	68·3	69·3	76·5	78·4	81·8	77·9	76·4	78·0	77·4	76·7	68·5	67·3
29 ...	71·1		76·7	77·4	**82·4**	78·4	78·7	77·9	76·9	75·4	69·3	70·3
30 ...	70·3		75·4	77·6	81·8	78·4	77·4	76·8	76·2	75·4	69·3	70·3
31 ...	70·3		**76·9**		82·0		76·6	77·0		77·2		70·1
Monthly Mean.	**67·3**	69·1	73·1	77·2	**80·2**	79·3	78·8	77·2	76·7	75·8	71·8	69·0

Annual mean ... ... 74·6
The least minimum temperature recorded during the year (that of 18th January) was ... 60·3

Pressure of Vapour. 1910.

TABLE IIIa.—*Daily and Monthly Means.*

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1	0·639	0·579	0·651	0·883	0·836	0·891	0·923	0·886	0·881	0·913	0·789	0·564
2	·544	·635	·630	·808	·840	·832	·904	·899	·896	·993	·789	·593
3	·504	·660	·554	·784	·865	·912	·922	·905	·877	·948	·723	·626
4	·577	·697	·517	·824	·863	·944	·913	·902	·856	·896	·725	·626
5	·625	·648	·527	·838	·819	·945	·905	·863	·832	·872	·658	·617
6	·666	·639	·592	·875	·828	·923	·909	·905	·861	·838	·651	·626
7	·631	·612	·587	·841	·899	·940	·907	·892	·844	·850	·661	·651
8	·626	·651	·623	·859	·855	·942	·905	·895	·848	·877	·838	·644
9	·670	·661	·649	·891	·869	·954	·915	·877	·845	·902	·826	·622
10	·704	·597	·656	·800	·852	·933	·906	·874	·849	·860	·845	·591
11	·665	·574	·586	·722	·860	·912	·886	·895	·843	·810	·807	·607
12	·634	·618	·591	·698	·884	·937	·874	·873	·837	·870	·689	·668
13	·632	·666	·601	·712	·880	·943	·841	·876	·836	·945	·632	·630
14	·658	·576	·652	·691	·894	·956	·838	·888	·863	·856	·632	·666
15	·627	·483	·637	·756	·927	·944	·872	·890	·827	·822	·645	·657
16	·489	·549	·756	·845	·902	·958	·865	·902	·844	·786	·687	·627
17	·437	·465	·808	·859	·881	·958	·862	·870	·843	·783	·653	·623
18	·442	·418	·831	·874	·907	·951	·858	·870	·845	·805	·693	·614
19	·510	·452	·845	·877	·908	·987	·863	·881	·827	·812	·712	·591
20	·569	·481	·756	·807	·912	·976	·891	·878	·831	·807	·663	·599
21	·574	·503	·661	·792	·892	·964	·900	·895	·843	·760	·581	·641
22	·556	·595	·692	·768	·891	·943	·890	·944	·868	·654	·527	·638
23	·547	·640	·742	·769	·881	·906	·907	·925	·889	·663	·493	·587
24	·534	·719	·726	·841	·889	·925	·877	·886	·898	·606	·519	·608
25	·565	·653	·739	·857	·878	·940	·898	·900	·908	·655	·557	·671
26	·520	·544	·845	·831	·878	·955	·880	·906	·916	·877	·553	·652
27	·573	·557	·809	·839	·901	·919	·897	·903	·947	·880	·600	·649
28	·638	·639	·754	·800	·900	·929	·910	·894	·933	·842	·591	·643
29	·581		·862	·826	·929	·925	·935	·891	·940	·756	·587	·661
30	·595		·860	·856	·916	·915	·916	·905	·889	·839	·540	·678
31	·581		·873		·894		·890	·895		·872		·677
Monthly Mean	0·587	0·590	0·697	0·814	0·882	0·937	0·892	0·893	0·869	0·827	0·662	0·631
Annual Variation.	−·186	−·183	−·076	+·041	+·109	+·164	+·119	+·120	+·096	+·054	−·111	−·142

Annual mean ... ... In. 0·773

TABLE IIIb.– *Showing the mean diurnal inequality of Pressure of Vapour for each month of the year 1910, and for the whole year.*

Unity = 0·001 inch.

1910. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 2 ...	− 5	+ 3	+ 11	+ 2	− 8	− 8	− 6	− 5	− 3	− 7	+ 22	0	0
1 2 ...	− 14	− 8	+ 15	+ 3	− 14	− 8	− 11	− 10	− 13	− 6	+ 5	− 7	− 6
2 2 ...	− 17	− 20	− 3	+ 4	− 14	− 12	− 10	− 10	− 15	− 8	+ 12	− 12	− 9
3 2 ...	− 33	− 23	− 16	− 3	− 18	− 20	− 13	− 11	− 15	− 16	− 11	− 17	− 16
4 2 ...	− 31	− 30	− 19	− 11	− 14	− 21	− 15	− 14	− 18	− 31	− 17	− 33	− 21
5 2 ...	− 57	− 42	− 31	− 18	− 22	− 23	− 19	− 18	− 18	− 38	− 33	− 40	− 30
6 2 ...	− 50	− 47	− 32	− 27	− 15	− 18	− 16	− 13	− 18	− 39	− 45	− 43	− 30
7 2 ...	− 44	− 69	− 38	− 25	− 10	− 13	− 10	− 12	− 18	− 26	− 45	− 46	− 30
8 2 ...	− 46	− 38	− 26	− 20	− 6	0	0	0	+ 2	− 15	− 39	− 30	− 18
9 2 ...	− 13	− 28	− 14	− 16	− 3	+ 5	+ 6	+ 5	+ 12	− 14	− 40	− 20	− 10
10 2 ...	− 5	− 30	− 17	+ 1	+ 7	+ 16	+ 14	+ 20	+ 25	− 1	− 34	− 13	− 1
11 2 ...	− 17	− 46	− 2	+ 9	+ 8	+ 23	+ 20	+ 21	+ 24	− 5	− 29	− 18	− 1
12 2 ...	− 7	− 36	+ 13	+ 21	+ 12	+ 24	− 23	+ 25	+ 24	− 11	− 36	− 46	0
13 2 ...	+ 9	+ 1	+ 35	+ 23	+ 10	+ 28	+ 23	+ 17	+ 26	+ 2	− 36	− 31	+ 9
14 2 ...	+ 39	+ 46	+ 37	+ 16	+ 14	+ 31	+ 28	+ 27	+ 24	+ 25	− 16	− 5	+ 22
15 2 ...	+ 47	+ 60	+ 23	+ 15	+ 15	+ 15	+ 17	+ 12	+ 18	+ 42	+ 24	+ 38	+ 27
16 2 ...	+ 60	+ 61	+ 12	+ 9	+ 18	+ 9	+ 24	+ 12	+ 12	+ 46	+ 26	+ 68	+ 30
17 2 ...	+ 54	+ 53	+ 14	0	+ 14	+ 1	+ 4	+ 2	− 1	+ 40	+ 44	+ 67	+ 24
18 2 ...	+ 45	+ 53	+ 4	− 1	+ 11	+ 2	− 6	− 6	− 4	+ 32	+ 57	+ 66	+ 21
19 2 ...	+ 41	+ 42	+ 6	− 7	+ 4	+ 1	− 9	− 14	− 11	+ 21	+ 67	+ 62	+ 17
20 2 ...	+ 42	+ 45	+ 14	+ 1	+ 7	− 7	− 8	− 12	− 12	+ 19	+ 64	+ 55	+ 17
21 2 ...	+ 19	+ 29	+ 4	+ 8	+ 3	− 3	− 13	− 11	− 9	+ 9	+ 45	+ 30	+ 9
22 2 ...	− 2	+ 13	+ 10	+ 10	+ 4	− 6	− 4	− 4	− 2	+ 2	+ 20	− 15	+ 2
23 2 ...	− 18	+ 2	+ 6	+ 8	− 3	− 9	− 12	− 9	− 7	− 9	+ 3	− 13	− 5
Range ...	117	130	75	50	40	54	47	45	44	85	112	114	60

s 821—17

Additional Capacity of the Air, 1910.

TABLE IV*a*.—*Daily and Monthly Means.*

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1 ...	0·233	0·360	0·224	0·228	0·255	**0·351**	0·143	0·115	0·091	**0·075**	0·245	0·274
2 ...	·284	·349	·221	·277	·257	·337	·171	·179	·103	·077	·255	·258
3 ...	·315	·306	·301	·269	·240	·233	·156	·102	·175	·111	·295	·235
4 ...	·240	·241	·325	·234	·237	·198	·161	**·066**	·185	·164	·245	·273
5 ...	·275	·288	·336	·259	·297	·140	·156	·082	·183	·179	·346	·273
6 ...	·261	·293	·280	·221	·294	·177	·151	·142	·199	·204	·334	·269
7 ...	·196	·346	·316	·257	·239	·208	·174	·134	·207	·176	·322	·248
8 ...	·235	·296	·276	·293	·271	·188	·169	·132	·220	·153	**·124**	·244
9 ...	·147	·257	·230	·272	·281	·169	·196	·082	**·221**	·144	·140	·242
10 ...	**·106**	·333	·237	·284	·303	·182	·205	·081	·206	·153	·141	·253
11 ...	·168	·327	·391	·350	·245	·153	·222	·116	·215	·178	·159	·235
12 ...	·191	·249	**·443**	·346	**·217**	·201	·245	·131	·218	·151	·255	·202
13 ...	·192	·197	·412	·385	·228	·176	·267	·124	·177	·148	·307	**·301**
14 ...	·218	·281	·305	**·406**	·246	·203	**·270**	·142	·105	·234	·314	·259
15 ...	·167	·333	·342	·313	·220	·228	·236	·142	·099	·245	·292	·245
16 ...	·206	·287	·218	·209	·268	·231	·255	·147	·094	·240	·236	·241
17 ...	·252	·302	**·185**	·201	·303	·226	·258	·176	·125	·205	·255	·213
18 ...	·302	**·422**	·190	**·196**	·271	·240	·262	**·198**	·093	·176	·216	·190
19 ...	·247	·385	·198	·221	·281	·215	·233	·196	·078	·160	·195	**·185**
20 ...	·216	·365	·376	·310	·283	·195	·237	·178	·063	·181	·285	·203
21 ...	·225	·402	·410	·336	·317	·137	·258	·111	·054	·228	·373	·232
22 ...	·271	·319	·308	·387	·327	·079	·232	·101	·095	·335	**·397**	·221
23 ...	·290	·304	·262	·347	·336	**·076**	·143	·137	·120	·304	·389	·239
24 ...	·305	**·157**	·345	·273	·329	·128	·246	·136	·134	**·380**	·355	·242
25 ...	·248	·202	·369	·251	·328	·105	·198	·157	·105	·351	·315	·196
26 ...	·293	·338	·235	·254	·321	·108	·193	·110	·118	·165	·275	·222
27 ...	·263	·339	·284	·239	·313	·081	·102	·131	·098	·215	·229	·193
28 ...	·260	·282	·355	·259	·312	·164	·146	·146	·109	·225	·278	·202
29 ...	**·351**		·226	·246	·317	·128	·148	·169	·074	·292	·291	·215
30 ...	·326		·194	·246	·316	·141	·110	·120	**·041**	·216	·330	·197
31 ...	·344		·213		**·341**		**·069**	·102		·183		·185
Monthly Mean ...	0·246	**0·309**	0·291	0·279	0·284	0·180	0·194	**0·132**	0·134	0·202	0·273	0·232
Annual Variation.	+·016	+·079	+·061	+·049	+·054	−·050	−·036	−·098	−·096	−·028	+·043	+·002

TABLE IV*b*.—*Showing the mean diurnal inequality of the Additional Capacity of the Air, for each month of the year 1910, and for the whole year.*

Unity = 0·001 inch.

1910. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year
H. m.													
0 2 ...	− 63	− 83	− 86	− 78	− 72	− 34	− 36	− 22	− 30	− 04	− 100	77	− 62
1 2 ...	− 68	− 93	− 102	− 89	− 75	− 40	− 37	− 21	− 28	− 72	− 94	− 83	− 67
2 2 ...	− 75	− 85	− 97	− 102	− 82	− 39	− 39	− 28	− 27	− 74	**− 112**	− 86	− 70
3 2 ...	− 72	− 95	− 94	− 109	− 85	− 36	− 39	− 28	− 29	**− 76**	− 102	**− 93**	− 71
4 2 ...	− 81	− 100	− 96	− 110	− 96	− 41	− 45	− 27	− 30	− 70	− 101	− 87	− 74
5 2 ...	− 66	− 98	− 96	**− 114**	− 97	− 49	− 45	− 27	− 38	− 72	− 92	− 88	− 73
6 2 ...	− 82	**− 101**	**− 105**	− 111	**− 101**	**− 51**	− 44	**− 34**	− 40	− 73	− 85	− 92	**− 77**
7 2 ...	**− 87**	− 82	− 90	− 82	− 73	− 44	**− 46**	− 26	**− 42**	− 75	− 80	− 90	− 68
8 2 ...	− 50	− 66	− 38	− 13	− 24	− 20	− 23	− 22	− 32	− 45	− 43	− 71	− 37
9 2 ...	− 39	− 23	+ 3	+ 42	+ 22	+ 6	+ 2	− 11	− 18	− 8	+ 2	− 43	− 5
10 2 ...	+ 21	+ 54	+ 77	+ 83	+ 66	+ 32	+ 27	+ 4	+ 2	+ 45	+ 77	+ 24	+ 43
11 2 ...	+ 98	+ 152	+ 107	+ 111	+ 102	+ 46	+ 27	+ 19	+ 15	+ 102	+ 136	+ 90	+ 84
12 2 ...	+ 154	**+ 209**	**+ 137**	+ 135	+ 134	+ 69	+ 55	+ 32	+ 35	+ 158	+ 200	+ 201	+ 127
13 2 ...	**+ 162**	+ 201	+ 129	+ 147	+ 152	+ 73	+ 57	**+ 41**	+ 46	**+ 168**	**+ 227**	**+ 231**	**+ 136**
14 2 ...	+ 149	+ 158	+ 124	**+ 160**	**+ 155**	**+ 80**	**+ 63**	+ 39	+ 57	+ 149	+ 221	+ 219	+ 131
15 2 ...	+ 124	+ 129	+ 128	+ 148	+ 145	+ 67	+ 62	+ 40	**+ 59**	+ 108	+ 160	+ 161	+ 111
16 2 ...	+ 86	+ 106	+ 128	+ 126	+ 120	+ 61	+ 50	+ 39	+ 53	+ 74	+ 115	+ 96	+ 88
17 2 ...	+ 36	+ 65	+ 86	+ 85	+ 72	+ 50	+ 53	+ 31	+ 49	+ 25	+ 32	+ 28	+ 51
18 2 ...	− 2	− 3	+ 39	+ 24	+ 2	+ 13	+ 29	+ 22	+ 25	− 10	− 21	− 15	+ 9
19 2 ...	− 18	− 20	+ 5	− 12	− 35	− 19	+ 3	+ 10	+ 14	− 25	− 52	− 36	− 15
20 2 ...	− 33	− 42	− 22	− 36	− 50	− 24	− 10	+ 6	0	− 35	− 64	− 48	− 30
21 2 ...	− 26	− 50	− 32	− 56	− 58	− 33	− 14	− 4	− 12	− 41	− 69	− 52	− 37
22 2 ...	− 32	− 59	− 50	− 70	− 63	− 35	− 23	− 16	− 17	− 46	− 73	− 36	− 43
23 2 ...	− 37	− 75	− 65	− 77	− 65	− 37	− 26	− 20	− 22	− 53	− 79	− 56	− 51
Range ...	249	310	242	274	256	131	109	75	101	244	339	324	213

In.

Annual mean ... ... 0·230

Rainfall, 1910.

TABLE Va.—*Total fall of rain (in inches) as measured by F. Chambers's Self-registering Gauge, the funnel of which is 28 feet above the ground.*

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
					In.	In.	In.	In.	In.	In.	In.	
1	...	...	...	...	...	...	0·77	1·00	0·27	0·16	...	...
2	...	...	...	...	...	0·10	0·15	...	0·50	...	...	...
3	...	...	...	...	...	0·01	0·35	1·35	0·16	0·01	...	..
4	...	...	...	...	...	0·65	0·04	2·23	0·02	...	...	...
5	...	...	...	...	...	0·67	0·05	1·27	0·01	...	...	...
6	..	..	...	...	...	...	0·56	0·11	0·11	...	...	...
7	...	...	...	...	...	0·10	0·11	0·46	0·02	...	0·03	...
8	...	...	...	...	...	0·52	0·10	0·87	...	...	**0·10**	...
9	...	...	...	...	...	0·10	...	**2·74**	...	...	...	...
10	...	...	...	...	...	0·11	...	0·83	...	...	...	...
11	...	...	...	...	...	0·05	...	0·57	...	...	...	...
12	...	...	...	...	...	0·20	...	0·47	...	...	...	...
13	..	...	...	...	...	0·01	...	0·35	1·09	...	...	...
14	...	...	...	...	...	0·53	0·03	0·07	0·23	...	...	...
15	...	...	...	...	**0·01**	0·11	0·02	0·05	0·32	...	...	...
16	...	...	...	...	...	...	...	0·07	0·25	...	...	...
17	...	...	...	...	...	0·06	...	...	...	...	...	...
18	...	...	...	...	...	...	...,	...	0·57	...	...	...
19	...	...	...	...	...	...	0·05	...	0·93	...	...	...
20	...	...	...	...	0·01	0·04	...	0·07	0·25	...	...	...
21	...	...	...	...	...	3·30	...	1·78	1·31	...	...	...
22	...	...	...	...	...	4·03	0·02	0·05	...	...	...	...
23	...	...	...	...	...	**7·92**	0·56	0·09	0·09	...	...	...
24	...	...	...	...	...	0·11	0·13	0·20	0·02	...	...	...
25	...	...	...	...	...	0·25	0·11	0·17	0·24	**0·38**	...	...
26	...	...	...	...	...	0·93	0·48	0·79	0·40	...	...	...
27	...	...	...	...	...	1·92	0·37	0·01	0·08	...	...	...
28	...	...	...	...	...	0·22	0·02	0·23	3·12	...	...	...
29	...	...		...	...	0·67	0·07	0·05	3·26	...	...	...
30	...	...		...	...	0·53	0·57	0·33	**4·90**	...	...	...
31	...	...		...			**2·55**	0·16		...		...
Monthly Total.	...	...	...	...	0·02	**23·16**	7·11	16·37	18·15	0·55	0·13	...
Number of rainy days.	...	...	...	...	2	25	21	**27**	23	3	2	...

Inches.

Total fall of rain in the year ... ... 65·49
Total number of rainy days in the year 103
The greatest daily fall of rain in the year (that of 23rd June was ... ... 7·92

No rain fell in the months of January, February, March, April and December, nor on any of the days left blank in the above table.

TABLE Vb.—*Total fall of rain (in inches) as measured by Newman's Gauge, placed 4½ feet above the ground.*

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
					In.	In.	In.	In.	In.	In.	In.	
1	...	...	...	...	...	...	0·79	1·06	0·28	0·16	...	...
2	...	...	...	...	...	0·12	0·14	...	0·50	...	...	...
3	...	...	...	...	...	0·01	0·35	1·37	0·16	0·01	...	...
4	...	...	...	...	...	0·70	0·04	2·26	0·02	...	...	...
5	...	...	...	...	...	0·66	0·05	1·28	0·01	...	...	...
6	...	...	...	...	...	...	0·58	0·12	0·14	...	...	...
7	...	...	...	...	...	0·12	0·11	0·49	0·02	...	0·03	...
8	...	...	...	...	...	0·53	0·10	0·92	...	...	**0·11**	...
9	...	...	...	...	...	0·11	...	**2·85**	...	...	...	...
10	...	...	...	...	...	0·12	...	0·86	...	...	...	...
11	...	...	...	...	...	0·06	...	0·58	...	...	...	...
12	...	...	...	...	...	0·23	...	0·50	...	...	...	...
13	...	...	...	...	...	0·01	...	0·35	1·13	...	...	...
14	...	...	...	...	...	0·51	0·03	0·07	0·23	...	...	...
15	...	...	...	...	0·01	0·09	0·02	0·05	0·34	...	...	...
16	...	...	...	...	...	...	...	0·07	0·26	...	...	...
17	...	...	...	...	...	0·07	0·01	...	...	...	...	...
18	...	...	...	...	...	...	...	...	0·59	...	...	...
19	...	...	...	...	...	...	0·06	...	0·96	...	...	...
20	...	...	...	...	**0·02**	0·05	...	0·07	0·25	...	...	...
21	...	...	...	...	...	3·47	...	1·80	1·37	...	...	...
22	...	...	...	...	...	4·06	0·02	0·05	...	...	...	...
23	...	...	...	...	...	**8·14**	0·56	0·10	0·09	...	...	...
24	..	...	...	...	...	0·14	0·14	0·20	0·02	...	...	...
25	...	...	...	...	...	0·27	0·11	0·17	0·26	**0·45**	...	...
26	...	...	...	...	...	0·98	0·50	0·81	0·41	...	...	...
27	...	...	...	...	...	1·97	0·40	0·01	0·08	...	...	...
28	...	...	...	...	...	0·22	0·02	0·26	3·28	...	...	...
29	...	...		...	...	0·71	0·10	0·06	3·42	...	...	...
30	...	...		...	...	0·57	0·60	0·35	**5·02**	...	...	...
31	...	...		...			**2·69**	0·18		...		...
Monthly Total.	...	...	...	...	0·03	**23·92**	7·42	16·89	18·84	0·62	0·14	...
Number of rainy days.	...	...	...	...	2	25	22	**27**	23	3	2	...

Inches.

Total fall of rain in the year ... ... 67·86
Total number of rainy days in the year 104
The greatest daily fall of rain in the year (that of 23rd June) was ... ... 8·14

No rain fell in the months of January, February, March, April and December, nor on any of the days left blank in the above table.

Velocity of Wind, 1910.

Robinson Beckley's Anemograph.

TABLE VIa.—*Mean velocity of wind in miles per hour without regard to the Direction from which it blew for each day of Bombay Civil Time; also the mean monthly velocity and its variation from the mean of the year.*

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
1 ...	7·4	7·9	7·9	7·5	8·4	**5·7**	16·7	17·2	6·3	**14·4**	7·9	7·0
2 ...	9·5	7·7	7·4	11·7	9·6	13·3	**23·3**	13·7	8·9	11·0	6·9	6·7
3 ...	9·3	8·0	12·0	13·9	10·4	**25·7**	20·5	14·9	12·5	7·0	8·3	8·5
4 ...	8·0	6·7	11·5	11·0	10·1	22·3	20·5	16·6	15·5	7·7	6·7	10·0
5 ...	8·0	6·5	8·9	7·1	9·2	11·2	21·2	16·5	13·2	9·0	9·0	8·5
6 ...	7·2	9·1	8·6	5·7	8·6	11·0	18·2	15·2	15·5	10·2	8·5	7·5
7 ...	6·6	7·3	10·4	7·4	8·0	10·2	13·1	20·9	16·5	10·4	9·0	8·7
8 ...	6·6	**6·0**	10·4	**5·0**	**4·9**	13·4	8·6	**22·3**	13·4	9·4	8·5	8·7
9 ...	7·6	8·1	13·9	10·8	6·7	15·1	9·4	18·4	10·2	9·4	**12·8**	8·1
10 ...	6·3	8·3	10·7	9·4	6·7	8·7	11·7	17·3	5·2	8·7	**5·9**	8·6
11 ...	6·7	9·6	10·0	10·7	10·9	11·1	9·2	16·8	6·8	7·9	7·5	6·1
12 ...	8·0	7·4	9·4	9·2	12·0	12·9	9·6	15·6	6·9	8·8	9·2	6·6
13 ...	6·8	6·0	8·5	10·8	12·5	10·5	9·8	14·7	7·6	6·0	9·0	9·9
14 ...	9·0	11·7	8·6	12·6	**9·7**	11·4	11·4	13·4	5·6	7·7	9·2	7·6
15 ...	10·3	9·0	9·7	11·3	13·6	12·3	12·8	13·8	5·9	6·3	9·9	8·4
16 ...	12·0	11·0	**4·9**	6·7	9·1	11·0	9·0	14·7	6·1	7·9	8·3	7·2
17 ...	**12·2**	12·0	5·9	7·5	**14·2**	9·5	8·2	15·0	5·5	6·7	8·5	6·5
18 ...	9·9	12·5	7·0	6·0	13·0	7·1	9·3	12·0	6·5	**5·5**	6·0	7·9
19 ...	8·7	10·2	6·9	7·2	10·8	8·1	11·5	10·5	7·7	6·2	5·9	**10·1**
20 ...	7·6	12·2	13·7	9·2	10·5	9·1	9·7	7·6	6·3	5·9	9·5	8·0
21 ...	7·7	9·5	**14·2**	**14·3**	7·7	11·7	11·3	11·7	**5·1**	7·4	10·0	7·3
22 ...	10·4	7·2	10·5	13·2	8·0	15·9	10·1	9·0	5·8	10·4	11·0	7·5
23 ...	8·9	6·0	9·9	13·0	8·4	19·5	6·0	12·8	5·4	10·1	11·9	9·3
24 ...	10·7	6·4	**14·7**	12·8	9·2	13·5	8·3	13·5	5·2	11·2	10·7	6·5
25 ...	10·6	10·6	12·5	12·2	8·2	18·7	8·3	12·5	5·1	9·5	8·4	**6·0**
26 ...	10·7	**13·5**	6·1	12·2	8·7	13·7	10·4	9·4	7·2	7·6	6·3	6·1
27 ...	6·7	8·1	9·7	12·2	8·3	12·2	9·2	7·7	6·3	7·5	7·0	6·8
28 ...	**6·1**	6·2	7·9	11·6	7·9	13·4	6·9	**6·2**	6·7	6·8	8·9	6·4
29 ...	8·7		6·6	8·7	7·3	12·5	6·7	6·9	9·2	8·6	9·1	6·9
30 ...	8·3		6·6	7·8	7·1	11·6	**5·5**	6·4	**24·5**	6·3	10·6	6·5
31 ...	8·7		6·6		5·5		17·0	7·4		6·3		6·3
Monthly Mean ...	8·5	8·7	9·4	10·1	9·2	12·7	11·7	**13·2**	8·8	8·3	8·7	**7·6**
Annual Variation	−1·2	−1·0	−0·3	+0·4	−0·5	+3·0	+2·0	+3·5	−0·9	−1·4	−1·0	−2·1

TABLE VIb.—*Showing the mean diurnal inequality of the velocity of the wind in miles per hour for each month of the year 1910, and for the whole year.*

1910. Bombay Civil Time. Hourly Intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
0 to 1...	−2·9	**−3·4**	−1·8	−0·7	−1·3	+0·8	−0·1	−0·7	−1·1	−1·9	−2·9	−2·6	−1·5
1 „ 2...	−3·1	−2·7	−2·6	−1·3	−1·5	**−1·0**	+0·1	−0·5	−0·6	−1·9	−2·7	−2·4	−1·7
2 „ 3...	−3·1	−2·6	**−3·1**	−3·1	−2·5	−0·5	−0·2	−0·4	−0·6	−1·6	−2·2	−1·9	**−1·8**
3 „ 4...	**−3·2**	−2·3	−2·7	−3·1	−3·2	−0·6	0·0	0·0	−0·8	−0·8	−0·6	−1·0	−1·5
4 „ 5...	−2·0	−1·8	−2·6	−3·9	−3·4	−0·5	−0·3	−0·3	−0·9	−1·2	−0·2	+0·3	−1·4
5 „ 6...	−2·3	−1·4	−1·8	−4·1	**−3·7**	−0·2	−0·1	−0·7	−1·1	−1·3	+0·7	+0·3	−1·3
6 „ 7...	−2·0	−0·8	−2·3	**−4·3**	−3·6	−0·9	−0·4	−0·6	−1·2	−0·9	+0·8	+0·9	−1·3
7 „ 8...	−1·3	−0·5	−2·6	−3·3	−3·5	−0·6	**−1·1**	+0·1	−0·5	−0·5	+1·7	+0·6	−1·0
8 „ 9...	−1·2	−0·9	−3·0	−3·1	−2·7	+0·1	−0·6	−0·5	−0·7	−0·1	+2·2	+1·6	−0·7
9 „ 10...	−0·9	−1·3	−2·7	−2·2	−1·9	+0·3	−0·4	−0·3	−0·1	0·0	+1·2	+1·0	−0·6
10 „ 11...	−1·5	−2·8	−2·0	−0·9	−0·2	+1·3	+0·2	+0·5	−0·3	−0·6	0·0	−0·5	−0·6
11 „ 12...	−2·3	−2·6	0·0	+1·0	+1·4	+0·2	+0·4	−0·2	−0·2	0·0	−1·3	**−2·9**	−0·5
12 „ 13...	−0·6	0·0	+1·7	+3·0	+2·6	−0·6	+0·2	+1·1	+1·0	+0·8	−1·0	−2·8	+0·4
13 „ 14...	+1·6	+2·3	+3·6	+4·7	+3·6	−0·8	+0·6	+1·4	+1·9	+1·9	−0·1	−0·7	+1·7
14 „ 15...	+3·0	+3·7	+5·0	**+5·8**	+4·7	0·0	+1·0	**+2·1**	**+2·2**	+2·4	+0·2	+1·0	+2·6
15 „ 16...	+4·6	+4·7	**+5·5**	+5·5	+4·9	+0·5	**+1·1**	+1·9	+2·1	+2·8	+1·4	+1·9	+3·1
16 „ 17...	+5·1	+5·0	+5·1	+5·6	**+5·3**	+0·1	+1·1	+1·6	+1·3	**+3·5**	+1·7	+2·9	**+3·2**
17 „ 18...	**+5·7**	**+5·0**	+4·2	+4·0	+4·0	−0·6	+1·0	+1·3	+1·1	+3·0	+2·3	+3·7	+2·9
18 „ 19...	+5·3	+4·2	+3·0	+2·1	+2·9	0·0	0·0	+0·3	+0·6	+2·8	**+2·8**	**+4·0**	+2·3
19 „ 20...	+4·0	+3·6	+1·5	+0·8	+1·6	+1·0	−0·2	0·0	+0·5	+2·2	+2·5	+3·3	+1·7
20 „ 21...	+2·2	+1·6	−0·2	−0·4	0·0	+1·4	−0·2	−1·2	−0·2	−0·3	+1·4	+1·1	+0·4
21 „ 22...	−0·4	−0·8	−0·9	−1·0	−1·2	**+1·5**	−0·5	−0·8	**−1·6**	−1·7	−2·2	−1·8	−0·9
22 „ 23...	−1·4	−2·5	−0·4	−0·7	−1·3	+0·5	−1·0	−1·4	−1·2	−3·0	**−3·1**	−2·2	−1·5
23 „ 24...	−2·2	−2·6	−0·7	−0·6	−1·0	−0·3	−0·2	**−1·5**	−0·4	**−3·2**	−3·0	−2·8	−1·5
Range ...	8·9	8·4	8·6	10·1	9·0	2·5	2·2	3·6	3·8	6·7	5·9	6·9	5·0

	Miles.
The mean velocity for June to August	12·5
The mean velocity for September to May	8·8
The mean velocity for the year	9·7

Mean Daily Velocities of the North and East Components of the Wind, 1910.

TABLE VIc.—*Showing the Mean Velocities of the North or South and East or West Components of the Winds which blew on each day of the year 1910.*

In miles per hour.

1910.	Month.																																			
Date.	January.				February.				March.				April.				May.				June.				July.				August.				September.				October.			
	N. or S.		E. or W.		N. or S.		E. or W.		N. or S.		E. or W.		N. or S.		E. or W.		N. or S.		E. or W.		N. or S.		E. or W.		N. or S.		E. or W.		N. or S.		E. or W.		N. or S.		E. or W.	
1	5·7	N	1·6	W	4·9	N	0·1	W	4·8	N	4·9	W	2·7	S	3·4	W	2·8	N	7·5	W	3·5	S	3·1	W	7·3	S	14·8	W	4·5	S	16·3	W	0·1	N	3·3	W	2·5	N	13·7	W
2	8·0	N	1·9	W	0·8	S	3·0	E	3·0	N	3·4	W	7·7	N	6·8	W	2·5	N	8·6	W	6·0	S	4·5	E	6·0	S	22·1	W	5·1	S	12·5	W	2·4	S	4·9	W	1·2	S	10·8	W
3	8·1	N	2·0	W	2·1	N	1·7	E	7·6	N	9·0	W	10·0	N	7·8	W	4·9	N	7·6	W	24·2	S	6·3	E	5·1	S	19·4	W	7·0	S	12·8	W	0·1	N	12·5	W	3·9	S	5·5	W
4	5·5	N	0·6	W	3·0	N	1·5	E	7·9	N	2·5	W	7·4	N	6·5	W	4·9	N	7·6	W	21·2	S	4·2	E	1·6	S	20·1	W	3·7	S	15·6	W	1·4	N	15·2	W	2·0	S	6·9	W
5	4·6	N	1·3	E	3·9	N	0·1	E	6·9	N	2·9	W	1·5	N	5·5	W	3·9	N	8·2	W	8·5	S	4·7	W	7·4	S	19·8	W	3·5	S	15·7	W	0·6	N	13·1	W	2·6	N	8·4	W
6	2·0	N	1·7	E	7·1	N	0·9	W	6·6	N	3·2	W	3·0	S	3·8	W	2·9	N	7·3	W	10·3	S	0·2	E	7·8	S	16·2	W	5·0	S	14·3	W	0·4	N	15·4	W	5·8	N	8·2	W
7	4·5	N	0·2	W	4·5	N	0·6	W	7·8	N	3·0	W	1·9	N	4·9	W	2·9	N	6·3	W	9·7	S	1·4	W	7·4	S	10·2	W	6·2	S	19·6	W	0·4	S	16·4	W	7·7	N	5·4	W
8	4·0	N	2·1	W	1·8	N	0·9	E	6·5	N	5·5	W	1·1	S	3·6	W	1·7	S	3·9	W	12·8	S	0·7	W	5·4	S	6·6	W	5·1	S	21·3	W	0·2	S	13·4	W	7·3	N	4·7	W
9	5·2	N	2·1	W	3·8	N	0·4	W	9·6	N	9·2	W	0·9	S	6·2	W	1·2	S	4·2	W	12·8	S	0·5	E	2·6	S	8·6	W	3·4	S	17·7	W	0·2	N	10·1	W	6·6	N	5·4	W
10	4·0	N	0·9	W	5·9	N	1·1	W	7·6	N	3·1	W	6·6	N	6·5	W	1·8	S	4·7	W	5·4	S	2·5	W	0·0		11·7	W	4·2	S	16·5	W	0·4	S	5·1	W	5·7	N	5·2	W
11	3·8	N	2·8	W	6·5	N	3·0	W	6·1	N	0·2	E	7·5	N	5·2	W	5·6	N	8·7	W	10·0	S	1·5	E	0·1	S	9·2	W	4·3	S	15·9	W	1·8	S	2·2	W	4·9	N	3·9	W
12	4·1	N	0·2	W	4·7	N	2·4	W	3·0	N	1·1	E	5·2	N	4·2	W	5·4	N	9·9	W	11·8	S	0·8	E	0·4	S	9·5	W	6·4	S	14·0	W	1·1	N	3·6	W	6·8	N	4·1	W
13	3·5	N	2·3	W	2·8	N	1·6	W	4·8	N	1·6	W	6·7	N	5·2	W	5·9	N	10·8	W	8·0	S	1·7	W	3·5	S	9·1	W	6·2	S	13·2	W	3·5	N	4·3	W	4·6	N	2·6	W
14	4·5	N	0·2	E	8·4	N	3·8	W	6·3	N	4·2	W	9·9	N	6·0	W	3·6	N	8·9	W	4·2	S	9·9	W	3·3	S	10·7	W	4·9	S	12·4	W	1·2	S	2·6	E	4·1	N	1·3	W
15	7·7	N	1·2	W	6·5	N	2·1	W	7·2	N	4·6	W	6·7	N	6·7	W	6·8	N	10·8	W	5·1	S	11·0	W	0·9	S	12·6	W	2·1	S	13·4	W	4·4	S	0·9	W	3·9	N	1·5	W
16	10·3	N	2·0	W	9·0	N	2·2	W	1·5	S	2·6	W	3·3	N	3·9	W	2·6	N	7·5	W	4·5	S	9·9	W	0·5	S	8·9	W	0·8	S	14·5	W	0·7	S	0·3	E	5·7	N	1·4	W
17	10·2	N	0·5	W	10·3	N	3·3	W	1·1	S	2·2	W	0·9	S	3·7	W	6·9	N	11·9	W	4·4	S	8·3	W	0·0		8·2	W	0·4	S	14·8	W	2·2	N	0·4	W	4·6	N	0·7	W
18	7·7	N	0·4	E	10·2	N	5·0	W	2·6	S	2·6	W	1·1	S	4·6	W	5·9	N	11·3	W	3·5	S	6·0	W	0·0		9·3	W	1·0	S	11·8	W	0·3	S	0·0		1·7	N	0·8	E
19	6·1	N	0·7	W	7·5	N	3·3	W	3·5	S	2·1	W	3·4	S	4·4	W	4·7	N	9·4	W	6·9	S	1·2	W	0·3	N	11·4	W	0·2	N	10·2	W	4·7	N	1·1	W	1·5	N	0·6	E
20	4·4	N	0·4	W	10·0	N	3·3	W	7·7	N	4·9	W	2·5	N	5·4	W	3·4	N	9·8	W	8·4	S	0·1	E	0·0		9·7	W	3·7	N	4·0	W	1·3	S	0·4	E	2·1	N	0·2	E
21	6·1	N	1·2	W	7·0	N	0·4	W	11·5	N	7·8	W	10·2	N	7·7	W	0·5	S	7·5	W	9·4	S	3·6	E	0·0		11·3	W	6·3	N	9·4	W	3·6	S	1·0	E	4·0	N	0·5	W
22	9·0	N	2·5	W	3·6	N	0·1	W	7·6	N	6·2	W	8·0	N	8·1	W	1·7	S	7·6	W	1·0	S	11·2	W	2·3	S	9·7	W	4·0	N	7·8	W	5·0	S	0·4	W	6·8	N	2·3	E
23	7·1	N	1·5	W	1·5	N	0·1	E	6·1	N	5·8	W	12·2	N	10·9	W	1·4	S	8·1	W	8·1	S	7·1	E	0·0		5·5	W	4·4	N	12·0	W	2·0	S	2·3	W	6·2	N	1·7	E
24	8·8	N	1·8	W	2·4	N	3·7	W	12·6	N	5·9	W	6·3	N	8·9	W	0·0		9·2	W	12·7	S	1·9	E	4·0	N	7·1	W	2·7	N	13·0	W	0·7	S	1·7	W	6·4	N	3·9	E
25	7·9	N	3·0	W	7·3	N	4·9	W	9·4	N	6·4	W	4·9	N	9·9	W	0·7	N	8·1	W	15·9	S	3·0	E	1·4	S	7·1	W	0·9	S	12·1	W	1·7	N	1·2	W	3·9	N	0·9	E
26	8·4	N	3·4	W	11·2	N	4·9	W	2·3	N	6·4	W	5·1	N	9·6	W	2·8	N	8·1	W	10·8	S	5·0	W	1·6	S	9·7	W	2·8	N	8·8	W	1·7	N	3·9	W	3·3	N	3·7	E
27	4·6	N	1·2	W	5·8	N	2·3	W	5·3	N	5·1	W	5·6	N	10·5	W	3·1	N	7·6	W	4·3	S	10·8	W	0·4	S	1·0	W	0·6	N	5·3	W	2·0	N	1·7	W	1·2	N	2·7	E
28	3·5	N	0·1	E	3·1	N	1·7	W	5·8	N	4·4	W	6·4	N	9·1	W	3·0	N	7·2	W	5·6	S	12·1	W	5·7	S	1·8	W	2·4	N	5·5	W	1·6	N	0·4	E	4·3	N	1·5	W
29	5·2	N	0·3	W					2·5	S	3·8	W	3·5	N	7·4	W	0·2	S	7·1	W	6·9	S	9·9	W	1·8	S	2·1	W	1·0	S	4·5	W	0·9	N	5·2	W	4·2	N	3·5	E
30	5·2	N	0·1	W					0·9	N	3·9	W	0·5	N	5·8	W	0·6	N	6·8	W	7·8	S	8·1	W	0·8	N	3·2	W	0·9	N	2·5	W	6·0	N	23·0	W	2·0	N	1·9	E
31	5·8	N	1·2	W					1·0	S	2·5	W					0·3	S	5·3	W					1·9	S	16·6	W	2·9	N	4·6	W					3·5	N	0·3	E
Monthly Mean	6·0	N	1·1	W	5·5	N	1·6	W	4·9	N	4·1	W	4·2	N	6·4	W	2·5	N	8·0	W	8·8	S	2·8	W	2·4	S	10·4	W	1·4	S	12·0	W	0·1	N	5·2	W	3·8	N	2·3	W
Annual Variation.	4·2	N	3·1	E	3·7	N	2·6	E	3·1	N	0·1	E	2·4	N	2·2	W	0·7	N	3·8	W	10·6	S	1·4	E	4·2	S	6·2	W	3·2	S	7·8	W	1·7	S	1·0	W	2·0	N	1·9	E

Date.	November.				December.			
	N. or S.		E. or W.		N. or S.		E. or W.	
1	4·4	N	0·7	E	3·4	N	1·6	E
2	1·5	N	2·1	E	2·3	N	2·8	E
3	2·4	N	2·8	E	4·5	N	1·4	E
4	2·0	S	1·6	E	5·3	N	3·4	E
5	2·6	N	4·6	E	4·4	N	2·1	E
6	5·0	N	3·0	E	3·1	N	2·3	E
7	5·4	W	0·5	E	4·2	N	2·4	E
8	2·8	S	2·9	E	4·3	N	1·1	E
9	12·2	S	2·5	E	5·7	N	0·3	W
10	0·0		0·3	W	6·3	N	1·5	W
11	3·5	W	4·2	N	0·6	W		
12	2·0	W	3·8	N	0·2	E		
13	0·0		6·0	N	4·1	E		
14	1·4	E	2·3	N	3·0	E		
15	1·5	E	4·0	N	2·2	E		
16	0·5	W	3·1	N	1·5	E		
17	0·9	W	3·4	N	0·3	E		
18	2·1	W	5·0	N	0·0			
19	1·3	W	7·5	N	1·3	W		
20	4·8	E	6·1	N	0·4	E		
21	7·7	E	4·2	N	1·4	E		
22	7·1	E	5·2	N	0·2	W		
23	5·9	E	7·8	N	2·5	W		
24	5·3	E	4·3	N	0·7	E		
25	1·3	E	1·5	N	1·3	E		
26	1·5	E	3·3	N	1·4	E		
27	1·3	E	3·7	N	0·2	W		
28	3·0	E	3·0	N	1·2	E		
29	1·8	E	0·2	N	1·1	E		
30	4·7	E	1·6	N	1·4	E		
31			3·0	N	0·1	E		
Monthly Mean	2·0	E	4·1	N	1·0	E		
Annual Variation.	1·7	N	6·2	E	2·3	N	5·2	E

The Velocities of the Mean Components for the year are 1·8 N and 4·2 W.

TABLE VId.—*Showing the mean diurnal inequality of the Velocity of the North or South and East or West components of the Wind for each month of the year 1910, and for the whole year.*

In miles per hour.

1910.	Month.																														Year.	
	January.		February.		March.		April		May.		June.		July.		August.		September.		October.		November.		December.			
Bombay Civil Time Hourly Intervals.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.	N. or S.	E. or W.
0 to 1	1·2 S	2·2 E	1·8 S	2·6 E	0·4 N	1·6 E	1·1 N	0·3 E	0·4 N	1·3 E	0·1 S	1·4 E	0·0	0·2 E	1·4 S	1·2 E	1·8 S	2·2 E	0·8 S	1·8 E	1·8 S	1·8 E	1·8 S	2·4 E	0·7 S	1·6 E
1 to 2	1·7 S	2·5 E	1·6 S	3·3 E	0·0	3·0 E	1·4 N	1·4 E	0·7 N	1·7 E	0·6 N	0·2 E	0·4 S	0·3 E	0·5 S	0·3 E	1·7 S	1·9 E	1·3 S	2·5 E	1·5 S	2·2 E	2·0 S	2·6 E	0·7 S	1·8 E
2 to 3	1·8 S	2·9 E	1·1 S	3·0 E	0·5 S	3·5 E	0·5 N	3·8 E	0·4 N	2·8 E	0·1 N	0·5 E	0·7 S	0·6 E	0·2 S	0·4 E	1·7 S	1·2 E	2·1 S	3·7 E	1·3 S	2·8 E	1·8 S	3·5 E	0·8 S	2·4 E
3 to 4	2·2 S	3·5 E	1·6 S	4·0 E	0·0	4·3 E	0·3 N	6·1 E	0·2 N	3·5 E	0·2 N	0·1 E	0·6 S	0·4 E	0·1 S	0·6 E	1·5 S	1·6 E	1·3 S	4·2 E	0·7 S	4·4 E	1·0 S	4·2 E	0·7 S	3·1 E
4 to 5	1·7 S	4·4 E	1·3 S	4·8 E	0·5 S	5·4 E	1·8 S	7·3 E	0·1 N	3·9 E	0·4 N	1·8 E	0·2 S	0·4 E	0·2 S	0·1 E	1·1 S	1·8 E	1·3 S	4·1 E	0·7 S	4·8 E	0·9 S	5·4 E	0·8 S	3·7 E
5 to 6	1·8 S	4·7 E	0·6 S	5·3 E	1·6 S	6·8 E	1·7 S	7·3 E	0·1 S	4·5 E	0·3 S	3·3 E	0·8 S	1·2 E	0·7 S	0·7 E	0·9 S	3·4 E	1·1 S	4·1 E	0·1 S	5·8 E	1·5 S	5·9 E	0·9 S	4·4 E
6 to 7	2·0 S	5·1 E	0·9 S	5·8 E	1·9 S	7·0 E	1·8 S	7·6 E	0·4 S	5·0 E	1·4 N	2·6 E	0·9 S	1·4 E	1·0 S	1·4 E	1·2 S	2·9 E	1·4 S	4·8 E	0·8 S	6·4 E	0·8 S	6·4 E	1·0 S	4·7 E
7 to 8	2·3 S	6·4 E	1·7 S	7·2 E	2·6 S	6·9 E	1·0 S	7·2 E	0·3 S	4·6 E	0·2 N	3·0 E	0·1 S	1·7 E	0·9 S	0·5 E	1·7 S	3·3 E	1·5 S	5·6 E	0·2 S	7·2 E	1·1 S	5·9 E	1·1 S	5·0 E
8 to 9	2·4 S	6·8 E	2·0 S	8·0 E	3·0 S	6·3 E	1·9 S	5·8 E	0·6 S	3·3 E	0·5 S	3·0 E	0·4 S	1·3 E	1·1 S	0·9 E	1·5 S	3·2 E	1·0 S	4·7 E	0·1 N	7·6 E	1·0 S	7·3 E	1·3 S	4·8 E
9 to 10	3·0 S	7·3 E	2·2 S	6·9 E	2·8 S	5·1 E	2·2 S	4·2 E	1·7 S	1·9 E	0·1 N	2·7 E	0·4 S	0·7 E	0·5 S	0·9 E	1·4 S	2·1 E	1·3 S	3·8 E	1·4 S	7·0 E	1·9 S	7·0 E	1·6 S	4·1 E
10 to 11	3·3 S	5·4 E	2·9 S	5·2 E	2·0 S	0·5 E	1·3 S	0·8 W	1·4 S	0·1 W	1·2 S	0·1 E	0·5 S	0·1 W	0·8 S	0·4 W	0·0 S	0·0	1·3 S	1·2 E	2·1 S	5·0 E	1·7 S	4·6 E	1·6 S	1·7 E
11 to 12	2·8 S	0·6 E	2·4 S	0·7 W	1·9 S	2·5 W	1·4 S	3·4 W	0·9 S	1·8 W	1·0 S	0·2 W	0·2 S	0·4 W	0·6 S	0·0	0·1 N	0·5 W	0·8 S	1·3 W	2·0 S	1·5 E	2·2 S	1·8 E	1·3 S	0·0 W
12 to 13	1·8 S	4·4 W	1·2 S	5·4 W	1·6 S	4·9 W	0·4 S	5·1 W	0·5 S	3·0 W	0·2 N	1·5 W	0·4 N	0·9 W	0·3 N	1·5 W	0·9 N	3·1 W	0·3 S	2·9 W	1·8 S	1·0 W	2·7 S	1·7 W	0·7 S	2·9 W
13 to 14	0·2 S	6·4 W	0·7 S	7·6 W	0·1 N	7·0 W	0·5 N	6·9 W	0·2 S	4·2 W	0·4 N	2·7 W	0·1 S	1·0 W	0·8 N	1·6 W	2·1 N	4·0 W	0·0	5·2 W	1·1 S	4·0 W	1·4 S	5·2 W	0·0	4·6 W
14 to 15	0·4 N	8·2 W	0·3 N	8·6 W	1·3 N	7·8 W	0·9 N	7·7 W	0·0	5·1 W	0·4 N	3·4 W	0·3 N	1·4 W	1·0 N	2·3 W	2·4 N	4·2 W	0·4 N	6·7 W	0·5 S	7·0 W	0·7 S	7·7 W	0·5 N	5·8 W
15 to 16	2·5 N	8·4 W	1·8 N	8·8 W	2·5 N	7·8 W	1·5 N	7·3 W	0·8 N	5·4 W	0·7 N	3·8 W	0·2 N	1·6 W	1·0 N	2·1 W	2·4 N	4·1 W	1·6 N	6·7 W	0·8 N	8·4 W	0·5 N	8·9 W	1·4 N	6·1 W
16 to 17	4·0 N	7·2 W	3·1 N	8·0 W	3·3 N	6·7 W	1·7 N	7·3 W	0·9 N	5·6 W	0·0	3·5 W	0·2 N	1·6 W	1·0 N	2·0 W	1·9 N	3·7 W	3·0 N	6·6 W	1·4 N	9·1 W	2·1 N	9·1 W	1·9 N	5·9 W
17 to 18	5·0 N	7·0 W	4·2 N	7·3 W	3·3 N	5·7 W	1·6 N	5·4 W	0·6 N	4·4 W	1·0 N	2·5 W	1·0 N	1·9 W	1·4 N	1·6 W	2·6 N	3·3 W	3·8 N	5·2 W	2·4 N	8·6 W	3·8 N	8·6 W	2·6 N	5·1 W
18 to 19	5·6 N	5·7 W	4·0 N	6·4 W	2·7 N	4·2 W	1·3 N	3·8 W	0·9 N	3·3 W	0·2 N	1·8 W	0·9 N	0·9 W	1·0 N	0·1 W	2·1 N	2·9 W	3·8 N	4·0 W	3·6 N	7·7 W	5·2 N	7·3 W	2·6 N	4·0 W
19 to 20	5·2 N	4·3 W	4·8 N	4·4 W	2·0 N	2·8 W	1·2 N	2·2 W	0·5 N	1·9 W	0·1 N	0·1 E	1·0 N	0·6 W	1·0 N	0·1 W	2·0 N	1·2 W	2·2 N	2·3 W	4·6 N	6·4 W	5·5 N	5·8 W	2·5 N	2·7 W
20 to 21	3·7 N	2·7 W	3·5 N	2·5 W	0·8 N	1·4 W	0·8 N	0·9 W	0·4 N	0·4 W	1·1 S	0·6 W	0·0	0·2 W	0·6 N	1·1 E	0·6 N	0·2 E	1·5 N	1·4 W	3·9 N	4·6 W	4·0 N	3·6 W	1·6 N	1·4 W
21 to 22	1·5 N	0·2 W	1·4 N	0·3 E	0·8 N	0·2 W	0·2 N	0·5 W	0·1 N	1·0 E	1·0 S	0·2 E	0·4 N	0·0	0·4 S	0·6 E	0·4 N	0·7 E	0·4 N	0·3 W	0·8 N	1·6 W	1·2 N	0·4 W	0·5 N	0·0
22 to 23	0·5 N	0·8 E	0·3 S	1·9 E	1·0 N	0·6 E	0·3 N	0·1 E	0·2 N	1·0 E	0·5 S	0·3 E	0·3 N	1·2 E	0·1 N	1·4 E	0·5 S	1·2 E	0·8 S	1·6 E	0·3 S	0·1 E	0·9 N	0·2 E	0·1 N	0·9 E
23 to 24	0·5 S	1·8 E	0·8 S	2·0 E	0·6 N	0·7 E	0·6 N	0·3 W	0·3 N	1·0 E	0·2 N	0·9 E	0·2 S	0·3 E	0·8 S	1·5 E	1·3 S	0·9 E	1·3 S	1·8 E	1·4 S	1·4 E	0·6 S	1·1 E	0·4 S	1·1 E

Aggregate and Mean Velocities and Relative Frequency of Different Winds, 1910.

TABLE VIe.—*Showing for the year 1910 the sums of the Velocities, and the Mean Velocities, in miles per hour, of the Winds which blew in each month, from each of the sixteen Principal Directions and also the number of hourly Observations which those sums comprise; the latter numbers indicating the Relative Frequency of the same Wind (as to direction) in the several months, and of different Winds during the same month.*

1910. Month.	N.			N. N. E.			N. E.			E. N. E.			E.			E. S. E.			S. E.			S. S. E.		
	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.
	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.
January ...	615	90	6·8	575	96	6·0	379	71	5·3	764	110	6·9	176	29	6·1	85	13	6·5	0	0	0·0	3	1	3·0
February ...	348	49	7·1	512	85	6·0	337	56	6·0	654	105	6·2	233	34	6·9	86	10	8·6	27	5	5·4	4	1	4·0
March ...	277	42	6·6	397	67	5·9	194	30	6·5	244	33	7·4	72	13	5·5	192	27	7·1	35	7	5·0	54	11	4·9
April ...	262	35	7·5	258	42	6·1	93	20	4·6	85	13	6·5	4	1	4·0	20	4	5·0	59	10	5·9	111	19	5·8
May ...	10	2	5·0	29	7	4·1	15	4	3·7	2	1	2·0	10	2	5·0	38	8	4·7	0	0	0·0	0	0	0·0
June ...	0	0	0·0	0	0	0·0	14	1	14·0	43	3	14·3	20	2	10·0	458	28	16·4	394	28	14·1	1,821	105	17·3
July ...	0	0	0·0	17	2	8·5	15	4	3·7	0	0	0·0	0	0	0·0	0	0	0·0	18	1	18·0	149	16	9·3
August ...	7	2	3·5	31	5	6·2	18	4	4·5	16	3	5·3	0	0	0·0	5	1	5·0	51	7	7·3	47	10	4·7
September ...	28	5	5·6	61	12	5·1	43	11	3·9	88	19	4·6	69	17	4·1	281	49	5·7	270	44	6·1	277	41	6·8
October ...	121	24	5·0	358	77	4·6	259	37	7·0	776	105	7·4	250	37	6·8	176	33	5·3	0	0	0·0	35	2	17·5
November ...	247	38	6·5	222	42	5·3	451	68	6·6	1,895	199	9·5	497	60	8·3	176	25	7·0	117	16	7·3	124	13	9·5
December ...	211	36	5·9	488	93	5·2	341	61	5·6	1,369	183	7·5	595	74	8·0	137	28	4·9	0	0	0·0	3	1	3·0
Year ...	2,126	323	6·6	2,948	528	5·6	2,159	367	5·9	5,936	774	7·7	1,926	269	7·2	1,654	226	7·3	971	118	8·2	2,628	220	11·9

1910. Month.	S.			S. S. W.			S. W.			W. S. W.			W.			W. N. W.			N. W.			N. N. W.			Number of Observations.	
	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Sum of Velocities.	Number of Observations.	Mean Velocity.	Calm.	Variable.
	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.	Miles.		Miles.		
January ...	0	0	0·0	3	1	3·0	0	0	0·0	3	1	3·0	6	1	6·0	713	82	8·7	1,344	116	11·6	1,695	132	12·8	1	0
February ...	0	0	0·0	12	2	6·0	0	0	0·0	62	10	6·2	96	12	8·0	843	94	9·0	1,446	108	13·4	1,215	101	12·0	0	0
March ...	52	5	10·4	145	27	5·4	8	2	4·0	267	33	8·1	373	47	7·9	1,012	104	9·7	2,414	178	13·6	1,262	117	10·8	1	0
April ...	133	18	7·4	86	22	3·9	85	15	5·7	200	30	6·7	871	89	9·8	2,303	184	12·5	2,052	151	13·6	647	63	10·3	4	0
May ...	11	3	3·7	74	15	4·9	30	10	3·0	505	72	7·0	1,522	169	9·0	3,586	335	10·7	835	91	9·2	182	25	7·3	0	0
June ...	1,842	117	15·7	1,139	123	9·3	860	92	9·3	1,953	182	10·7	582	33	17·6	47	4	11·7	5	1	5·0	2	1	2·0	0	0
July ...	150	18	8·3	97	14	6·9	586	56	10·5	3,214	228	14·1	4,017	349	11·5	393	49	8·0	66	7	9·4	0	0	0·0	0	0
August ...	11	3	3·7	0	0	0·0	284	27	10·5	4,294	285	15·1	3,260	215	15·2	1,190	142	10·5	267	29	9·2	63	11	5·7	0	0
September ...	269	34	7·9	51	10	5·1	62	22	2·8	170	31	5·5	2,877	235	12·2	1,228	117	10·5	263	32	8·2	269	41	6·6	0	0
October ...	0	0	0·0	31	6	5·2	109	18	6·1	252	31	8·1	519	51	10·2	1,056	102	10·4	1,427	133	10·7	824	88	9·4	0	0
November ...	219	15	14·6	34	5	6·8	0	0	0·0	12	2	6·0	28	4	7·0	567	65	8·7	928	91	10·2	730	75	9·7	2	0
December ...	4	1	4·0	0	0	0·0	4	1	4·0	51	7	7·3	80	14	5·7	568	72	7·9	951	88	10·8	888	85	10·4	0	0
Year ...	2,691	214	12·6	1,672	225	7·4	2,028	243	8·3	10,983	912	12·0	14,240	1,219	11·7	13,806	1,350	10·2	11,998	1,025	11·7	7,777	739	10·5	8	0

Velocity of Wind, 1910.

DINES' ANEMOGRAPH.

TABLE VIf.—*Mean Velocity of the Wind in miles per hour, for each day of Bombay Civil Time; also the mean monthly velocity and its variation from the mean of the year.*

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
1 ...	4·9	5·3	5·3	5·0	5·7	**3·8**	10·5	10·5	3·5	**8·9**	5·3	4·9
2 ...	6·7	5·1	4·9	7·9	6·5	9·5	**14·5**	8·1	5·5	6·4	4·5	4·0
3 ...	6·5	5·2	8·1	9·7	7·0	**18·9**	12·8	9·2	7·6	4·2	5·3	5·2
4 ...	5·6	**2·7**	7·7	7·7	6·6	17·0	12·6	10·1	9·5	4·7	4·1	**6·5**
5 ...	5·7	4·0	5·9	5·1	6·0	8·0	12·8	10·0	8·2	5·5	5·9	5·4
6 ...	4·7	5·8	5·5	4·4	5·7	8·1	11·2	9·2	9·7	6·8	5·6	4·6
7 ...	4·8	4·7	6·9	5·2	5·1	7·6	8·5	12·5	10·0	6·9	5·8	5·7
8 ...	4·7	3·4	6·8	**3·7**	**3·3**	9·9	5·5	**13·5**	7·7	6·1	5·7	5·7
9 ...	5·4	5·5	9·2	7·7	4·4	11·1	5·5	11·2	6·0	6·1	**8·8**	5·4
10 ...	4·2	5·7	7·3	6·4	4·3	5·5	6·7	10·4	2·9	5·5	3·9	5·5
11 ...	4·5	6·7	6·7	7·5	7·4	8·0	5·3	9·7	4·0	4·7	4·8	3·6
12 ...	5·7	5·0	6·1	6·6	8·2	9·2	5·7	9·4	4·0	5·6	6·0	4·0
13 ...	4·7	4·0	5·7	7·5	8·4	7·4	5·6	8·7	4·4	3·5	5·8	6·2
14 ...	6·1	7·9	5·5	8·7	6·4	7·1	6·8	7·5	3·2	4·5	6·0	4·7
15 ...	6·4	6·1	6·4	7·5	9·2	7·6	7·8	7·8	3·8	3·8	6·3	5·2
16 ...	8·0	7·4	**3·4**	4·2	6·2	7·0	5·5	8·6	3·7	5·0	5·1	4·2
17 ...	**8·2**	8·0	4·0	5·0	**9·6**	0·3	4·9	8·9	3·2	4·3	5·5	3·8
18 ...	7·0	8·7	4·7	4·0	8·8	4·5	5·8	7·0	4·2	**3·3**	4·0	4·7
19 ...	5·2	6·9	4·9	4·8	7·3	5·7	7·0	6·1	5·1	4·0	**3·8**	6·3
20 ...	5·1	8·3	9·5	5·9	6·9	7·0	5·7	4·5	4·2	3·9	5·9	4·9
21 ...	5·4	6·3	**10·0**	9·6	4·7	9·0	6·9	7·4	3·2	4·7	6·5	4·2
22 ...	6·7	4·4	7·0	8·8	5·0	10·2	6·4	5·6	3·6	7·0	7·0	4·4
23 ...	6·0	4·4	6·4	**11·6**	5·3	13·3	3·8	7·9	3·1	6·7	7·5	5·5
24 ...	7·4	4·3	10·0	8·5	5·9	10·5	5·0	8·4	2·9	7·4	6·9	3·7
25 ...	6·9	7·2	8·4	7·9	5·6	13·5	4·9	7·4	**2·3**	6·2	5·5	**3·5**
26 ...	7·5	**9·0**	3·8	8·4	6·0	10·5	6·3	5·5	4·3	5·1	4·1	3·7
27 ...	4·2	5·4	6·5	8·2	5·5	7·6	6·1	4·5	3·8	5·0	4·5	3·8
28 ...	**3·6**	4·0	5·1	7·8	5·3	8·0	4·3	**3·4**	4·0	4·5	5·7	3·6
29 ...	5·9		4·6	5·7	4·6	7·8	3·8	3·8	5·8	5·7	5·8	3·9
30 ...	5·3		4·5	4·8	4·6	7·6	**3·3**	3·5	**15·7**	4·1	7·0	3·7
31 ...	5·9		3·8		3·4		10·4	4·2		4·1		3·6
Monthly Mean ...	5·8	5·8	6·3	6·9	6·1	**8·9**	7·2	7·9	5·3	5·3	5·6	**4·6**
Annual Variation.	−0·5	−0·5	0·0	+0·6	−0·2	+2·6	+0·9	+1·6	−1·0	−1·0	−0·7	−1·7

	Miles.
The mean velocity for June to August	8·0
The mean velocity for September to May	5·7
The mean velocity for the year	6·3

TABLE VIg.—*Showing the mean diurnal inequality of the Velocity of the Wind in miles per hour for each month of the year 1910, and for the whole year.*

1910. Bombay Civil Time Hourly intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
0 to 1	−2·0	**−2·7**	−1·3	−0·4	−0·7	+0·2	0·0	−0·4	−0·7	−1·4	−2·1	−1·7	−1·1
1 „ 2	−2·1	−2·4	−1·9	−1·0	−0·9	−0·7	−0·2	−0·4	−0·4	−1·3	−2·2	−1·5	−1·2
2 „ 3	−2·3	−2·3	−2·1	−2·0	−1·6	−0·3	−0·1	−0·4	−0·2	−1·2	−1·5	−1·4	**−1·3**
3 „ 4	**−2·5**	−2·3	**−2·3**	−2·4	−2·0	−0·6	0·0	−0·2	−0·6	−0·6	−0·6	−0·6	−1·2
4 „ 5	−1·9	−1·6	−2·1	−2·8	−2·4	−0·4	−0·4	−0·5	−0·8	−0·9	−0·2	0·0	−1·2
5 „ 6	−1·9	−1·1	−1·6	**−3·0**	**−2·4**	0·0	−0·2	−0·5	**−0·9**	−0·9	+0·3	+0·2	−1·0
6 „ 7	−1·8	−0·7	−1·5	−2·9	−2·4	**−0·8**	−0·5	−0·5	−0·7	−0·6	+0·6	+0·6	−0·9
7 „ 8	−1·2	−0·2	−1·9	−2·1	−2·3	−0·5	**−0·7**	+0·1	−0·4	−0·5	+1·1	+0·7	−0·6
8 „ 9	−1·0	−0·5	−1·8	−1·9	−1·7	+0·4	−0·6	−0·5	−0·3	0·0	+1·3	+1·0	−0·5
9 „ 10	−0·7	−0·7	−1·8	−1·4	−1·2	0·0	−0·2	−0·2	0·0	0·0	+0·8	+0·7	−0·4
10 „ 11	−1·3	−1·9	−1·3	−0·6	−0·4	+0·7	+0·1	+0·2	−0·1	−0·4	0·0	−0·4	−0·4
11 „ 12	−1·6	−1·6	+0·1	+0·7	+0·9	+0·4	+0·2	−0·2	0·0	−0·2	−0·8	−1·6	−0·3
12 „ 13	−0·4	+0·1	+1·2	+2·0	+2·0	−0·2	+0·3	+0·4	+0·9	+0·7	−0·4	**−2·0**	+0·4
13 „ 14	+1·1	+1·8	+2·2	+3·1	+2·5	−0·1	+0·4	+0·8	**+1·5**	+1·2	0·0	−0·5	+1·2
14 „ 15	+2·3	+2·3	+3·4	+3·6	+2·9	−0·1	+0·5	+1·3	+1·4	+1·7	+0·3	+0·5	+1·7
15 „ 16	+3·3	+3·2	**+3·8**	+3·6	+3·3	+0·2	+0·7	**+1·4**	+1·4	+1·8	+1·0	+1·2	+2·1
16 „ 17	+3·7	+3·5	+3·5	**+3·8**	**+3·4**	−0·2	**+0·8**	+1·2	+1·1	**+2·4**	+1·5	+2·0	**+2·2**
17 „ 18	**+4·1**	**+3·6**	+3·0	+2·7	+2·7	−0·3	+0·4	+0·9	+0·8	+2·2	+1·8	+2·4	+2·0
18 „ 19	+3·9	+3·2	+2·3	+1·5	+1·9	0·0	+0·1	+0·4	+0·3	+1·9	**+2·1**	**+2·9**	+1·7
19 „ 20	+2·9	+2·7	+1·1	+0·5	+0·9	+0·6	−0·1	+0·1	+0·3	+1·6	+2·0	+2·5	+1·3
20 „ 21	+1·5	+1·1	0·0	−0·2	−0·1	+0·8	−0·3	−0·6	−0·5	−0·2	+1·1	+0·8	+0·3
21 „ 22	−0·3	−0·5	−0·4	−0·8	−0·9	**+1·1**	−0·3	−0·5	−0·9	−1·3	−1·4	−1·2	−0·6
22 „ 23	−1·0	−1·8	−0·3	−0·4	−1·0	+0·5	−0·6	−0·7	−0·7	**−2·1**	**−2·2**	−1·5	−1·0
23 „ 24	−1·6	−2·0	−0·6	−0·4	−0·6	0·0	−0·1	**−1·1**	−0·2	−2·1	−2·0	−1·9	−1·0
Range ...	6·6	6·3	6·1	6·8	5·8	1·9	1·5	2·5	2·4	4·5	4·3	4·9	3·5

Temperature of the Ground, 1910.

TABLE VIIa.—*Showing for each month the mean Temperature of the Ground in the Thermometer Shed, and its Annual Variation at the respective depths of 1, 9, 20, 60 and 132 inches below the surface.*

Month.	1 inch. Mean Temperature.	1 inch. Excess over the yearly Mean.	9 inches. Mean Temperature.	9 inches. Excess over the yearly Mean.	20 inches. Mean Temperature.	20 inches. Excess over the yearly Mean.	60 inches. Mean Temperature.	60 inches. Excess over the yearly Mean.	132 inches. Mean Temperature.	132 inches. Excess over the yearly Mean.
	°	°	°	°	°	°	°	°	°	°
January ...	76·3	−5·0	78·1	−4·5	82·2	−3·1	84·2	−1·3	84·1	−0·3
February ...	78·3	−3·0	79·3	−3·3	82·8	−2·5	83·9	−1·6	83·8	−0·6
March ...	81·2	−0·1	81·4	−1·2	83·6	−1·7	83·8	−1·7	83·7	−0·7
April ...	84·3	+3·0	84·6	+2·0	86·4	+1·1	85·2	−0·3	83·7	−0·7
May ...	86·2	+4·9	88·3	+3·7	87·9	+2·6	86·5	+1·0	84·0	−0·4
June ...	84·3	+3·0	85·9	+3·3	88·5	+3·2	87·5	+2·0	84·7	+0·3
July ...	83·5	+2·2	85·1	+2·5	87·2	+1·9	87·3	+1·8	85·0	+0·6
August ...	81·7	+0·4	83·8	+1·2	86·2	+0·9	86·5	+1·0	85·0	+0·6
September ...	81·4	+0·1	83·3	+0·7	85·7	+0·4	85·9	+0·4	84·9	+0·5
October ...	82·1	+0·8	83·3	+0·7	85·5	+0·2	85·6	+0·1	84·9	+0·5
November ...	79·4	−1·9	81·1	−1·5	84·5	−0·8	85·0	−0·5	84·6	+0·2
December ...	77·1	−4·2	78·5	−4·1	82·6	−2·7	84·4	−1·1	84·2	−0·2
Year ...	81·3		82·6		85·3		85·5		84·4	

TABLE VIIb.—*Showing for each of the five observation hours and the mean of the day, the Temperature of the Ground exposed to the direct rays of the Sun at the depths of 1 inch and 8 inches below the surface.*

Depth from Surface.	1 inch. Observation Hours.					1 inch. Mean of five observation hours.	8 inches. Observation Hours.					8 inches. Mean of five observation hours.
Month.	6	10	14	16	22		6	10	14	16	22	
	°	°	°	°	°		°	°	°	°	°	
January ...	72·5	86·6	114·5	99·9	80·1	90·7	77·8	77·3	78·2	78·8	79·1	78·2
February ...	74·2	84·5	116·6	109·9	84·2	93·9	80·2	79·8	80·6	81·6	82·0	80·9
March ...	79·3	87·3	117·8	110·7	85·7	96·2	86·4	85·4	86·4	87·7	88·2	86·8
April ...	84·9	93·0	120·1	113·5	90·3	100·4	93·2	91·9	93·7	95·4	96·2	94·1
May ...	88·9	97·8	119·0	111·3	93·5	102·1	98·6	97·8	99·6	101·4	102·1	99·9
June ...	82·9	87·4	95·8	92·4	85·1	88·7	89·8	89·3	90·8	91·6	91·7	90·6
July ...	82·5	86·5	93·2	92·3	84·1	87·8	87·6	86·8	88·2	89·2	89·8	88·3
August ...	79·9	83·6	89·4	88·4	82·7	84·8	83·5	83·0	84·3	85·1	85·6	84·3
September ...	79·6	84·3	92·4	89·8	82·6	85·7	83·8	83·3	84·6	85·3	85·8	84·6
October ...	80·1	89·6	106·5	100·8	86·3	92·7	83·7	83·9	84·5	85·6	86·5	84·7
November ...	75·9	89·5	107·5	94·8	81·1	89·7	81·5	80·9	81·8	82·6	83·2	82·0
December ...	72·4	88·9	114·4	93·6	79·3	89·7	77·8	77·1	78·2	78·9	79·5	78·3
Year ...	79·4	88·2	107·3	99·8	84·6	91·9	85·3	84·6	85·9	86·9	87·5	86·1

Maxima and Minima of different Meteorological Elements, 1910.

TABLE VIII.—*Showing the individual observations in each month of the year, indicating the greatest and the least values of the following elements, viz., Height of Barometer (corrected for Temperature); Temperature of Air; Pressure of Vapour; Additional Capacity of Air; and Ground Temperatures 1 inch and 8 inches below the surface (exposed to solar rays).*

1910.	Height of Barometer.			Temperature of Air.			Pressure of Vapour.			Additional Capacity.			Ground Thermometer 1 inch deep.			Ground Thermometer 8 inches deep.		
Month.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.	Greatest.	Least.	Range.
	In.	In.	In.	°	°	°	In.	In.	In.	In.	In.	In.	°	°	°	°	°	
January ...	30·048	29·730	0·318	85·2	61·5	23·7	0·769	0·344	0·425	0·592	0·053	0·539	120·8	65·7	55·1	82·0	74·8	7·2
February ...	·062	·756	·306	87·0	66·9	20·1	·804	·316	·488	·805	·058	·747	121·8	70·5	51·3	84·3	77·9	6·4
March ...	29·973	·677	·296	92·1	68·5	23·6	·951	·323	·628	1·067	·079	·988	122·0	74·0	48·0	93·3	81·6	11·7
April ...	·915	·653	·262	89·4	75·7	13·7	·984	·530	·454	0·713	·077	·636	123·0	82·0	41·0	99·7	89·5	10·2
May ...	·908	·658	·250	90·5	77·9	12·6	·972	·764	·208	·524	·116	·408	122·0	86·0	36·0	105·3	95·9	9·4
June ...	·786	·331	·455	92·7	75·0	17·7	1·029	·831	·198	·634	·025	·609	118·0	75·8	42·2	105·3	81·4	23·9
July ...	·861	·480	·381	87·7	76·4	11·3	0·976	·788	·188	·389	·041	·348	102·4	78·0	24·4	95·7	82·2	13·5
August ...	·801	·498	·303	84·9	76·2	8·7	1·000	·804	·196	·298	·033	·265	104·0	76·5	27·5	89·3	79·8	9·5
September ...	·869	·455	·414	84·9	73·6	11·3	·020	·775	·245	·359	·012	·347	106·8	74·6	32·2	90·6	79·7	10·9
October ...	·941	·593	·348	90·3	73·0	17·3	·083	·386	·697	·951	·046	·905	112·8	76·0	36·8	89·0	79·8	9·2
November ...	30·051	·706	·345	88·5	67·9	20·6	0·901	·345	·556	·857	·056	·801	119·0	70·0	49·0	86·8	77·4	9·4
December ...	·111	·851	·260	87·8	66·1	21·7	·780	·442	·338	·813	·083	·730	120·8	69·5	51·3	80·5	76·1	4·4
Year ...	30·111	29·331	0·780	92·7	61·5	31·2	1·083	0·316	0·767	1·067	0·012	1·055	123·0	65·7	57·3	105·3	74·8	30·5

Extent of the Cloudy Sky, 1910.

TABLE IX.—*Means of estimations made at 6, 10, 14, 16 and 22 hours daily, the whole sky being reckoned as 10·0.*

1910. Date.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	2·0	0·2	...	...	1·8	**1·6**	9·8	8·4	**10·0**	**9·2**	0·4	...
2 ...	0·8	0·6	...	...	1·6	5·0	9·2	7·0	7·8	7·2	1·6	**2·6**
3 ...	0·8	0·4	1·4	...	0·6	7·2	9·4	**10·0**	8·0	7·8	1·4	0·8
4 ...	2·2	**3·8**	...	0·6	2·6	5·8	**10·0**	10·0	8·8	6·2	0·2	0·6
5 ...	0·6	3·8	...	0·6	1·8	9·6	10·0	9·0	7·0	5·0	0·4	...
6 ...	...	3·8	...	1·6	4·2	6·2	9·4	**4·0**	6·2	4·2	6·2	0·2
7 ...	...	...	...	1·6	1·8	6·0	8·4	9·4	5·6	1·8	5·8	1·0
8 ...	...	1·6	...	1·2	1·2	7·0	8·2	9·6	5·4	3·2	**9·2**	...
9 ...	...	...	0·2	2·2	1·0	7·8	7·2	9·6	4·0	2·6	8·2	1·0
10 ...	**4·6**	...	...	2·8	1·8	9·8	6·6	10·0	5·2	2·2	7·4	0·8
11 ...	0·4	...	...	1·2	1·4	**10·0**	5·2	9·2	**3·0**	0·8	4·4	...
12 ...	0·4	...	...	...	5·2	6·6	**2·2**	9·0	5·2	3·4	1·0	...
13 ...	1·4	...	...	...	3·4	8·6	3·8	10·0	9·8	4·8	0·6	...
14 ...	1·8	...	...	1·8	**6·2**	7·2	5·0	9·6	9·6	3·8	0·8	...
15 ...	2·2	...	...	0·2	2·2	7·8	4·8	9·2	9·8	3·0	...	0·6
16 ...	3·8	...	1·6	...	3·0	8·6	4·0	8·6	8·8	2·2	3·0	0·2
17 ...	...	...	1·0	0·6	**0·4**	9·0	2·4	8·6	7·2	...	0·8	...
18 ...	...	...	1·8	1·0	2·6	7·8	6·6	9·0	9·2	5·8	0·4	...
19 ...	...	...	**4·0**	2·0	4·6	6·2	8·8	5·8	9·4	...	...	1·6
20 ...	...	...	0·4	0·4	3·6	7·8	6·6	5·8	10·0	...	...	..
21 ...	0·8	...	1·2	1·4	3·2	8·4	8·2	10·0	10·0	...	...	...
22 ...	...	...	2·2	1·4	4·0	9·6	8·0	9·2	7·8	2·2	...	...
23 ...	...	...	1·8	2·4	2·4	9·6	10·0	9·8	5·0	2·8	...	...
24 ...	0·8	...	0·4	...	4·0	7·2	6·4	8·4	6·2	4·4	...	...
25 ...	...	2·0	0·2	1·4	2·2	9·0	7·4	8·4	9·4	4·6	0·6	...
26 ...	...	...	...	0·8	3·2	8·6	8·0	8·0	8·6	6·2	0·2	...
27 ...	...	...	...	3·0	3·2	10·0	9·6	7·0	8·4	3·6	1·0	...
28 ...	...	...	...	1·2	3·4	9·8	8·2	8·0	9·0	4·6	1·6	...
29 ...	...		0·6	**5·0**	3·0	10·0	9·2	8·0	8·0	5·0	...	...
30 ...	...		...	2·8	1·2	10·0	10·0	8·6	10·0	3·6	...	...
31 ...	0·2		0·4		1·6		10·0	9·2		5·0		...
Monthly mean.	0·7	0·6	0·6	1·2	2·7	7·9	7·5	**8·6**	7·7	3·7	1·8	**0·3**
Annual Variation ...	−2·9	−3·0	−3·0	−2·4	−0·9	+4·3	+3·9	+5·0	+4·1	+0·1	−1·8	−3·3

For the days which have no entry, 0·0 is to be understood.

Mean of the months from January to April, November and December ... ... M = 0·9
Mean of the months from May to October ... ... 6·3

Mean for the year ... ... 3·6

Meteorological Data, 1910.

Table X.—Five-day Means of different Meteorological Elements.

Number of Five-day Period.	Barometric Pressure.	Temperature of the air.	Pressure of vapour.	Additional Capacity of the air.	* Rainfall.	North or South Component of Wind.	East or West Component of Wind.	Number of Five-day Period.	Barometric Pressure.	Temperature of the air.	Pressure of vapour.	Additional Capacity of the air.	* Rainfall.	North or South Component of Wind.	East or West Component of Wind.
	In	°	In.	In.	In.	Miles.	Miles.		In.	°	In.	In.	In.	Miles.	Miles.
1 ...	29·898	74·2	0·578	0·269	...	6·4 N	1·0 W	38 ...	29·668	81·6	0·908	0·169	0·84	6·1 S	12·3 W
2 ...	838	74·6	·671	·189	...	3·9 N	0·7 W	39 ...	·786	82·5	·870	·242	0·03	1·5 S	10·0 W
3 ...	·860	73·5	·643	·187	...	4·7 N	1·3 W	40 ...	·749	82·5	·864	·249	0·09	0·2 S	10·1 W
4 ...	·918	69·7	·489	·245	...	7·7 N	0·6 W	41 ...	·741	82·6	·893	·223	0·72	0·3 N	8·7 W
5 ...	·949	73·1	·555	·268	...	7·8 N	2·0 W	42 ...	·647	81·0	·904	·157	1·13	3·4 S	4·3 W
6 ...	·947	75·1	·581	·299	...	5·4 N	1·0 W	43 ...	·592	79·7	·899	·115	5·72	3·5 S	12·3 W
7 ...	·919	77·4	·630	·320	...	3·0 N	1·0 E	44 ...	·607	79·4	·893	·111	5·07	4·7 S	17·3 W
8 ...	·890	77·1	·642	·296	...	4·2 N	0·2 W	45 ...	·688	78·8	·879	·107	5·14	4·9 S	15·5 W
9 ...	·852	75·4	·606	·277	...	5·7 N	2·4 W	46 ...	·725	80·6	·884	·161	0·19	1·8 S	13·4 W
10 ...	·841	73·7	·474	·364	...	8·7 N	3·2 W	47 ...	·730	80·7	·905	·145	2·02	3·7 N	8·7 W
11 ...	·845	75·7	·588	·309	...	4·9 N	1·5 W	48 ...	·698	80·3	·898	·136	1·45	1·5 N	8·9 W
12 ...	·851	75·4	·609	·277	...	6·4 N	3·7 W	49 ...	·716	79·6	·894	·117	1·37	0·1 N	4·0 W
13 ...	·874	74·4	·564	·293	...	6·4 N	4·2 W	50 ...	·696	80·9	·866	·190	0·35	0·4 N	14·5 W
14 ...	·865	76·2	·620	·290	...	7·5 N	4·1 W	51 ...	·728	81·0	·844	·216	...	0·2 S	6·9 W
15 ...	·871	78·8	·647	·344	...	4·0 N	2·4 W	52 ...	·769	78·1	·843	·120	1·96	0·1 S	0·5 W
16 ...	·822	80·7	·780	·272	...	2·4 N	3·9 W	53 ...	·777	76·7	·843	·077	3·17	1·1 S	0·0
17 ...	·817	80·7	·749	·304	...	7·6 N	5·7 W	54 ...	·742	80·0	·912	·115	0·86	0·5 N	2·2 W
18 ...	·770	81·7	·832	·254	...	1·7 N	3·9 W	55 ...	·598	79·5	·934	·075	11·88	2·0 N	10·5 W
19 ...	·788	81·5	·827	·253	...	4·8 N	6·0 W	56 ...	·809	80·7	·881	·167	0·01	2·0 N	6·9 W
20 ...	·772	82·6	·853	·265	...	0·7 N	5·0 W	57 ...	·858	79·8	·864	·156	...	6·3 N	4·7 W
21 ...	·752	81·4	·716	·360	...	7·2 N	5·5 W	58 ...	·812	80·7	·838	·214	...	4·6 N	1·5 W
22 ...	·785	81·5	·852	·227	...	0·1 N	4·4 W	59 ...	·855	78·6	·768	·216	...	3·2 N	0·7 E
23 ...	·798	82·7	·805	·319	...	4·3 N	9·1 W	60 ...	·859	79·6	·736	·283	0·45	4·2 N	2·6 E
24 ...	·819	81·5	·830	·249	...	4·2 N	8·5 W	61 ...	·818	80·7	·820	·232	...	3·7 N	0·9 E
25 ...	·826	82·2	·847	·257	...	3·8 N	7·9 W	62 ...	·839	79·2	·709	·295	...	3·3 N	2·8 E
26 ...	·800	83·2	·861	·278	...	0·2 N	5·3 W	63 ...	·795	78·4	·795	·177	0·14	1·1 S	0·4 E
27 ...	·804	82·7	·889	·231	0·01	5·7 N	9·8 W	64 ...	·883	77·2	·657	·281	...	5·7 N	0·1 E
28 ...	·818	84·4	·902	·281	0·02	4·7 N	10·0 W	65 ...	·950	76·7	·660	·265	...	4·6 N	1·6 E
29 ...	·802	85·2	·886	·327	...	0·6 S	8·1 W	66 ...	·945	75·0	·531	·346	...	4·2 N	4·6 E
30 ...	·769	85·3	·905	·316	...	1·9 N	7·4 W	67 ...	·915	74·3	·576	·280	...	4·0 N	2·5 E
31 ...	·688	84·7	·907	·292	0·83	11·0 S	1·3 E	68 ...	·944	75·1	·618	·262	...	3·9 N	2·4 E
32 ...	·654	82·7	·941	·176	1·42	10·8 S	1·2 W	69 ...	·925	74·8	·623	·244	...	5·0 N	0·2 E
33 ...	·649	82·7	·936	·183	0·93	7·9 S	2·4 W	70 ...	·990	75·8	·650	·250	...	3·8 N	2·2 E
34 ...	·659	84·5	·960	·228	0·16	4·9 S	7·3 W	71 ...	·969	73·1	·615	·205	...	5·2 N	0·2 E
35 ...	·506	81·1	·943	·123	15·86	7·9 S	0·3 E	72 ...	·987	74·3	·631	·224	...	4·4 N	0·1 E
36 ...	·547	80·8	·934	·117	4·15	8·7 S	7·0 W	73 ...	·974	74·6	·662	·198	...	2·3 N	0·7 E
37 ...	·623	81·3	·915	·154	1·89	5·6 S	16·9 W								

* Five-day sums, *not means*.

Table XI.—Meteorological

Years.	Barometric Pressure.										Temperature.			
		Individual Hours.			Daily Means.			Monthly Means.				Individual Hours.		
	Annual Means.	Maximum.	Minimum.	Extreme Range.	Maximum.	Minimum.	Range.	Maximum.	Minimum.	Range.	Annual Means.	Maximum.	Minimum.	Extreme Range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	°	°	°	°
1846 ...	29·809	30·107	29·383	0·724	30·032	29·493	0·539	**29·993**	29·624	0·369	80·5	98·8	63·8	35·0
1847 ...	·797	·075	·458	·617	·017	·498	·519	·917	·621	·296	79·0	94·2	**53·3**	40·9
1848 ...	·805	·084	·445	·639	·012	·491	·521	·927	·649	·278	79·8	98·0	57·0	41·0
1849 ...	·798	·094	·387	·707	·016	·428	·588	·945	·624	·321	79·6	96·5	58·5	38·0
1850 ...	·808	·070	·482	·588	29·998	·521	·477	·949	·639	·310	79·9	97·0	60·0	37·0
1851 ...	·796	·148	·414	·734	30·036	·462	·574	·958	**·599**	·359	79·5	93·3	57·3	36·0
1852 ...	·805	·072	·433	·639	·001	·485	·516	·929	·630	·299	80·2	95·4	57·4	38·0
1853 ...	·814	·113	·502	·611	·022	·536	·486	·955	·644	·311	80·5	96·4	58·6	37·8
1854 ...	·804	·111	**·183**	·928	·031	·514	·517	·935	·618	·317	80·6	98·4	63·0	35·4
1855 ...	·824	·119	·462	·657	·048	·513	·535	·944	·658	·286	80·7	95·3	60·0	35·3
1856 ...	·806	·136	·439	·697	·068	·524	·544	·985	·610	·375	80·5	94·6	63·0	31·6
1857 ...	·808	·105	·507	·598	·039	·541	·498	·981	·640	·341	79·9	**100·2**	63·0	37·2
1858 ...	·812	·093	·464	·629	·018	·516	·502	·944	·670	·274	80·1	94·9	60·8	34·1
1859 ...	·812	·061	·437	·624	29·994	·492	·502	·933	·628	·305	80·2	98·4	62·0	36·4
1860 ...	·804	·095	·452	·643	30·012	·496	·516	·953	·631	·322	80·0	93·7	59·6	34·1
1861 ...	·797	·053	·429	·624	29·975	·506	·469	·932	·639	·293	79·3	97·0	62·5	34·5
1862 ...	**·783**	·101	·467	·634	30·017	·511	·506	·920	·625	·295	80·6	94·0	61·4	32·6
1863 ...	·792	·108	·457	·651	·018	·500	·518	·947	·606	·341	79·8	95·0	60·2	34·8
1864 ...	·832	·142	·486	·656	·054	·567	·487	·945	·660	·285	79·9	94·0	60·7	33·3
1865 ...	·811	·109	·456	·653	·039	·496	·543	·972	·656	·316	**81·0**	96·0	66·1	29·9
1866 ...	·822	·164	·342	·822	·076	·452	·624	·969	·661	·308	**78·3**	91·8	56·6	35·2
1867 ...	·824	·143	·514	·629	·058	·564	·494	·983	·667	·316	78·8	92·6	61·8	30·8
1868 ...	·836	·131	·344	·787	·053	·413	·640	·963	·673	·290	79·1	92·5	62·2	30·3
1869 ...	·814	·132	·463	·669	·046	·503	·543	·966	·659	·307	79·9	92·4	63·3	29·1
1870 ...	·797	·094	·418	·676	·015	·478	·537	·936	·637	·299	79·0	92·7	62·9	29·8
1871 ...	·805	·068	·466	·602	29·996	·521	·475	·932	·641	·291	80·1	93·3	66·1	27·2
1872 ...	·795	·067	·515	·552	·980	·569	·411	·932	·640	·292	78·9	93·3	60·4	32·9
1873 ...	·811	·095	·440	·655	30·012	·513	·499	·943	·641	·302	78·9	93·2	55·2	38·0
1874 ...	·810	·102	·378	·724	·024	·445	·579	·975	·628	·347	78·3	93·0	60·9	32·1
1875 ...	·808	·080	·465	·615	·013	·500	·513	·938	·652	·286	79·3	91·2	59·1	32·1
1876 ...	·816	·091	·465	·626	·022	·542	·480	·957	·631	·326	79·3	91·1	65·8	25·3
1877 ...	**·846**	·108	·540	·568	·049	·600	·449	·976	·713	·263	80·3	91·3	63·2	28·1
1878 ...	·800	·106	·467	·639	·022	·517	·505	·953	·654	·299	80·1	94·8	62·8	32·0
1879 ...	·801	·080	·294	·786	·003	·402	·601	·924	·673	·251	78·6	96·5	65·4	31·1
1880 ...	·818	·103	·477	·626	·033	·561	·472	·975	·668	·307	79·5	91·9	60·4	31·5
1881 ...	·820	·120	·504	·616	·041	·540	·501	·963	·677	·286	80·0	92·0	67·1	24·9
1882 ...	·807	·140	·366	·774	·058	·433	·625	·965	·633	·332	79·1	92·1	65·1	27·0
1883 ...	·812	·132	·469	·663	·053	·545	·508	·989	·639	·350	78·8	90·9	62·8	28·1
1884 ...	·827	·136	·419	·717	·053	·472	·581	·993	·648	·345	78·8	91·9	63·1	28·8
1885 ...	·826	·125	·404	·721	·051	·470	·581	·987	·652	·335	79·2	91·8	62·1	29·7
1886 ...	·809	·132	·362	·770	·057	·461	·596	·947	·653	·294	79·5	95·4	59·5	35·9
1887 ...	·818	·130	·406	·724	·060	·466	·594	·935	·662	·273	78·7	92·2	56·9	35·3
1888 ...	·832	·130	·537	·593	·061	·585	·476	·975	·664	·311	80·1	93·8	65·7	28·1
1889 ...	·818	·096	·394	·702	·028	·475	·553	·970	·647	·323	79·6	92·1	65·7	26·4
1890 ...	·814	·094	·505	·589	·023	·552	·471	·947	·632	·315	79·3	91·1	66·9	24·2
1891 ...	·834	·128	·471	·657	·045	·522	·523	·960	·653	·307	79·5	90·8	60·3	30·5
1892 ...	·790	·084	·418	·666	·017	·492	·525	·968	·608	·360	79·9	93·9	64·4	29·5
1893 ...	·815	·081	·432	·649	·014	·518	·496	·958	·648	·310	78·9	92·1	59·8	32·3
1894 ...	·809	·094	·451	·643	·021	·498	·523	·945	·636	·309	79·6	90·4	65·1	25·3
1895 ...	·819	·105	·390	·715	·026	·436	·590	·936	·654	·282	79·6	92·3	62·0	30·3
1896 ...	·820	·094	·356	·738	·019	·407	·612	·953	·618	·335	80·7	93·7	64·8	28·9
1897 ...	·810	·108	·385	·723	·020	·447	·573	·951	·629	·322	79·5	91·3	62·1	29·2
1898 ...	·798	·105	·417	·688	·026	·476	·550	·961	·628	·333	80·3	92·2	64·2	28·0
1899 ...	·833	·104	·436	·668	·025	·496	·529	·954	·660	·294	80·0	91·5	60·5	31·0
1900 ...	·827	·094	·487	·607	·018	·540	·478	·945	·660	·285	80·0	91·8	62·8	29·0
1901 ...	·823	·144	·422	·722	·061	·512	·549	·955	·659	·296	79·8	96·3	59·4	36·9
1902 ...	·821	·157	·402	·755	·052	·460	·592	·982	·622	·360	80·9	92·5	65·3	27·2
1903 ...	·813	·132	·332	·800	·048	**·377**	·671	·980	·601	·379	78·7	90·9	57·2	33·7
1904 ...	·824	·159	·454	·705	·087	·487	·600	·962	·665	·297	79·8	91·7	62·8	28·9
1905 ...	·840	**·192**	·554	·638	**·112**	·609	·503	·976	·679	·297	78·9	92·4	56·8	35·6
1906 ...	·820	·090	·359	·731	·015	·447	·568	·951	·624	·327	79·2	92·6	62·5	30·1
1907 ...	·815	·057	·467	·590	29·989	·522	·467	·931	·645	·286	79·9	92·7	63·5	29·2
1908 ...	·818	·116	·481	·635	30·038	·526	·512	·963	·661	·302	79·0	98·7	61·2	37·5
1909 ...	·807	·067	·453	·614	·003	·510	·493	·921	·646	·275	78·9	91·6	62·4	29·2
1910 ...	·799	·111	·331	·780	·036	·403	·633	·963	·616	·347	79·1	92·7	61·5	31·2
Means ...	29·813										79·6			

The data are derived from hourly eye observations during the period 1846—1872 and

* Determined from readings of the

Data, 1846—1910.

OF THE AIR. — PRESSURE OF VAPOUR.

Daily Means.			Monthly Means.							Individual Hours.			Daily Means.			Monthly Means.		
Maximum.	Minimum.	Range.	Maximum.	Minimum.	Range.	Mean Maximum.*	Mean Minimum.*	Mean Range.*	Annual Means.	Maximum.	Minimum.	Extreme Range.	Maximum.	Minimum.	Range.	Maximum.	Minimum.	Range.
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
°	°	°		°	°	°				Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
88·4	72·6	15·8	86·7	76·4	10·3	...	...	...	0·809	1·116	0·318	0·798	1·022	0·478	0·544	0·961	0·612	0·349
86·5	62·2	24·3	83·9	73·7	10·2	...	...	...	·795	·999	·189	·910	0·985	**259**	·726	·934	·606	·328
86·7	67·1	19·6	84·6	75·1	9·5	...	...	...	·803	·046	·303	·743	·987	·330	·657	·918	·629	·289
86·6	65·9	20·7	85·2	73·3	11·9	...	...	...	·796	**214**	·280	·934	1·060	·351	·709	**969**	·588	·381
87·8	68·1	19·7	84·4	72·4	12·0	...	..	...	·784	·076	·270	·806	0·983	·392	·591	·942	·566	·376
86·7	65·6	21·1	84·6	72·2	12·4	...	...	...	·782	·030	·236	·794	·988	·348	·640	·929	·555	·374
88·3	66·7	21·6	86·3	71·9	14·4	...	...	...	·769	·069	·265	·804	·961	·369	·592	·920	·508	·412
89·4	67·0	22·4	86·9	71·6	15·3	...	...	...	·765	·028	·247	·781	·974	·353	·621	·934	·511	·423
89·4	71·3	18·1	86·9	75·0	11·9	...	...	...	·795	·124	·198	·926	1·025	·337	·688	·946	·557	·389
88·5	69·2	19·3	86·0	74·7	11·3	...	...	...	·794	·110	·297	·813	·002	·439	·563	·947	·596	·351
88·1	72·6	15·5	86·1	75·4	10·7	...	...	...	·796	·076	·300	·776	0·977	·425	·552	·933	·625	·308
87·6	70·9	16·7	86·1	73·9	12·2	...	...	...	·792	·125	·321	·804	**1·067**	·475	·592	·933	·566	·367
88·0	69·0	19·0	86·2	73·3	12·9	...	...	...	·815	·139	·360	·779	·044	·479	·565	·968	·625	·343
88·0	69·7	18·3	85·2	74·2	11·0	...	...	...	·809	·155	·369	·786	·040	·439	·601	·957	·608	·349
88·1	68·3	19·8	85·6	72·3	12·7	...	...	...	·800	·088	·299	·789	·019	·405	·614	·956	·562	·394
87·6	70·6	17·0	85·2	74·4	10·8	...	..	...	·772	·066	·260	·806	0·982	·402	·580	·921	·565	·356
87·8	69·6	18·2	85·8	72·9	12·9	...	...	...	·778	·055	·304	·751	·983	·423	·560	·934	·553	·381
87·9	67·3	20·6	86·0	74·3	11·7	...	...	...	·759	·000	·267	·733	·927	·390	·537	·902	·577	·325
87·6	68·9	18·7	84·4	71·3	13·1	...	...	...	·748	·040	·219	·821	·948	·359	·589	·900	·484	·416
89·5	73·2	16·3	**87·6**	77·0	10·6	...	...	...	·789	·107	·353	·754	·989	·488	·501	·930	·607	·323
86·3	65·3	21·0	82·7	71·8	10·9	...	...	...	·762	·089	·235	·854	·978	·336	·642	·932	·545	·387
87·4	70·0	17·4	84·7	73·1	11·6	...	...	...	·784	·046	·282	·764	·987	·428	·559	·947	·560	·387
85·9	69·4	16·5	84·5	72·9	11·6	...	...	...	·785	·091	**128**	·963	1·023	·335	·688	·953	·583	·370
86·4	72·2	14·2	84·1	75·3	8·8	...	...	...	·787	·052	·272	·780	0·992	·433	·559	·930	·608	·322
86·3	68·9	17·4	83·7	73·6	10·1	...	...	...	·772	·044	·244	·800	·976	·432	·544	·915	·566	·349
86·7	70·6	16·1	85·6	74·9	10·7	...	..	...	·800	·051	·346	·705	·959	·474	·485	·915	·632	·283
86·7	68·1	18·6	84·1	71·7	12·4	...	...	...	·758	·091	·217	·874	·996	·348	·648	·925	·515	·410
87·7	65·4	22·3	84·0	72·1	11·9	84·2	74·7	9·5	·755	·055	·223	·832	1·005	·285	·720	·906	·532	·374
85·8	66·7	19·1	83·7	71·1	12·6	83·8	74·1	9·7	**743**	·033	·232	·801	·964	·353	·611	·892	·513	·379
86·8	66·3	20·5	83·8	72·2	11·6	84·7	75·0	9·7	·760	·031	·215	·816	·973	·321	·652	·911	·515	·396
86·6	71·3	15·3	84·4	74·9	9·5	85·1	75·0	10·1	·751	0·994	·340	·654	·956	·474	·482	·892	·584	·308
87·1	69·9	17·2	84·0	74·4	9·6	85·9	76·0	9·9	·788	1·022	·257	·765	·964	·349	·615	·916	·583	·333
87·4	69·6	17·8	85·1	73·3	11·8	85·8	75·6	10·2	·795	·100	·252	·818	·999	·383	·616	·921	·563	·358
87·5	70·6	16·9	82·9	73·1	9·8	84·7	74·1	10·6	·748	·049	·281	·768	1·009	·400	·609	·909	·552	·357
86·1	67·6	18·5	84·5	73·0	11·5	85·5	75·1	10·4	·767	·035	·262	·773	0·964	·379	·585	·891	·533	·358
86·5	73·5	13·0	85·1	76·1	9·0	86·5	75·3	11·2	·774	·014	·286	·728	·959	·417	·542	·904	·579	·325
85·6	71·7	13·9	83·6	74·9	8·7	85·5	74·2	11·3	·764	·047	·283	·764	1·007	·435	·572	·908	·597	·311
86·3	69·4	16·9	84·2	72·8	11·4	85·1	73·9	11·2	·758	·027	·297	·730	0·963	·388	·575	·921	·525	·396
86·4	68·9	17·5	83·5	71·9	11·6	85·2	**737**	11·5	·756	0·994	·330	·664	·938	·440	·498	·896	·544	·352
87·3	68·7	18·6	84·3	72·3	12·0	85·3	74·4	10·9	·769	1·129	·273	·856	1·013	·355	·658	·926	·536	·390
87·4	67·4	20·0	85·0	73·5	11·5	85·4	74·8	10·6	·780	·096	·194	·902	·048	·366	·682	·920	·570	·350
85·8	67·0	18·8	84·2	72·6	11·6	84·9	74·0	10·9	·759	·014	·193	·821	0·958	·303	·655	·882	·574	·308
86·6	71·2	15·4	84·1	74·1	10·0	86·3	75·6	10·7	·794	·067	·357	·710	·977	·412	·565	·931	·618	·313
87·4	72·7	14·7	85·4	74·6	10·8	86·1	74·8	11·3	·787	·050	·329	·721	1·001	·461	·540	·939	·599	·340
86·1	72·1	14·0	83·9	75·1	8·8	85·5	74·7	10·8	·771	·009	·337	·672	0·952	·478	·474	·907	·589	·318
86·8	67·3	19·5	84·9	73·5	11·4	86·3	74·7	11·6	·757	·029	·206	·823	·970	·309	·661	·919	·568	·351
89·0	70·4	18·6	85·7	75·5	10·2	85·7	75·5	10·2	·792	·050	·398	·752	·984	·452	·532	·923	·621	·302
86·0	68·1	17·9	83·6	72·1	11·5	85·3	74·1	11·2	·759	·015	·253	·762	·970	·373	·597	·899	·548	·351
86·7	71·9	14·8	84·6	75·1	9·5	85·6	74·9	10·7	·784	·087	·344	·743	·959	·485	·474	·929	·616	·313
86·6	69·1	17·5	84·1	73·2	10·9	85·8	74·9	10·9	·776	·030	·333	·697	·965	·420	·545	·923	·580	·343
87·4	72·2	15·2	85·8	75·3	10·5	86·7	76·0	10·7	·802	·071	·347	·724	1·003	·465	·538	·948	·628	·320
86·9	68·2	18·7	85·0	73·6	11·4	85·9	74·6	11·3	·781	·104	·281	·823	·007	·398	·609	·952	·582	·370
87·0	71·0	16·0	85·1	74·6	10·5	86·7	75·7	11·0	·797	·081	·195	·886	·022	·367	·655	·931	·580	·351
86·3	67·7	18·6	84·9	72·0	12·9	86·3	75·2	11·1	·775	·028	·218	·810	0·979	·339	·640	·897	·510	·387
87·5	68·4	19·1	85·0	73·2	11·8	86·3	75·4	10·9	·793	·088	·256	·832	1·036	·383	·653	·949	·561	·388
87·4	66·7	20·7	85·7	72·5	13·2	86·3	75·4	10·9	·787	·100	·196	·904	·008	·331	·677	·937	·509	·428
87·7	72·1	15·6	85·9	75·8	10·1	**87·4**	76·5	10·9	**819**	·049	·291	·758	0·984	·435	·549	·933	·643	·290
86·2	64·9	21·3	83·2	73·2	10·0	85·5	74·1	11·4	·775	·042	·214	·828	·982	·319	·663	·939	·568	·371
86·7	69·0	17·7	84·7	74·8	9·9	86·7	75·4	11·3	·785	0·22	·302	·720	·984	·421	·563	·933	·612	·321
87·0	65·0	22·0	85·4	**70·1**	15·3	86·0	74·4	11·6	·766	·036	·168	·868	·979	·288	·691	·930	**481**	·449
86·5	68·2	18·3	85·0	72·5	12·5	86·1	74·7	11·4	·774	·070	·230	·840	·980	·329	·651	·927	·553	·374
86·9	69·8	17·1	84·0	75·1	8·9	86·8	75·6	11·2	·782	·059	·299	·760	·992	·439	·553	·921	·576	·345
87·0	67·4	19·6	84·0	73·9	10·1	86·0	74·7	11·3	·770	·043	·265	·778	·971	·408	·563	·924	·566	·358
87·2	67·6	19·6	85·2	71·9	13·3	85·9	74·6	11·3	·786	·051	·315	·736	·998	·382	·616	·944	·575	·369
86·0	67·9	18·1	83·9	73·5	10·4	86·4	74·6	11·8	·773	·083	·316	·767	·993	·418	·575	·937	·587	·350
									0·779									

from Barograms and Thermograms during the period 1873—1910.
maximum and minimum thermometers.

TABLE XI.—METEOROLOGICAL DATA, 1846—1910.

(*Rainfall.*)

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual total.	Number of Rainy Days.	Maximum fall in one day.	Time of occurrence.	Maximum fall in one hour.	Time of occurrence.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.		Inches.		Inches.	Month. Day. Hour.
1846 ...	...	...	...	...	...	26·41	33·19	6·65	6·65	1·03	...	...	73·93	104	5·16	16th July ...	...	.....
1847 ...	0·09	0·02	...	0·31	1·40	37·56	16·45	8·68	5·68	0·28	5·53	...	76·00	120	12·54	11th June ...	4·22	6 12 3 to 4
1848 ...	...	...	...	0·59	5·67	39·98	13·90	7·37	2·32	5·84	0·19	...	75·86	96	8·14	14th June ...	2·20	6 14 22 to 23
1849 ...	0·34	...	...	...	...	23·41	50·99	12·66	26·13	0·75	0·61	...	114·89	100	6·35	25th July ...	1·39	7 17 0 to 1
1850 ...	...	...	...	...	...	14·80	20·15	5·39	4·77	4·89	0·25	...	50·25	103	4·61	17th July ...	1·70	6 13 12 to 13
1851 ...	...	...	...	...	0·52	24·50	47·02	20·03	3·89	0·04	0·07	...	96·07	89	6·51	25th August ...	1·90	7 14 13 to 14
1852 ...	...	...	0·01	...	0·30	21·76	22·17	11·16	12·67	0·19	...	1·01	69·27	100	7·09	22nd June ...	1·96	6 21 0 to 1
1853 ...	...	0·05	0·02	...	...	33·70	13·05	5·95	9·83	...	...	...	62·60	84	9·89	18th June ...	2·35	6 9 3 to 4
1854 ...	...	...	...	...	...	16·34	38·95	3·90	13·61	7·49	1·85	...	82·14	114	5·55	14th June ...	1·42	6 14 7 to 8
1855 ...	...	...	...	...	...	20·18	11·83	3·82	5·29	0·06	...	...	41·18	91	4·79	20th June ...	1·34	6 26 19 to 20
1856 ...	...	...	...	...	2·09	24·66	24·48	6·73	7·78	0·06	...	0·12	65·92	109	10·28	9th June ...	1·77	6 9 9 to 10
1857 ...	...	...	...	...	0·57	9·26	8·74	15·71	14·21	2·78	...	...	51·27	108	5·27	1st August ...	1·12	8 1 13 to 14
1858 ...	...	...	...	0·15	1·57	14·44	20·12	7·48	15·47	3·22	...	...	62·45	105	6·15	11th September ...	1·50	7 9 21 to 22
1859 ...	...	...	...	...	...	26·87	28·70	14·59	5·94	1·06	...	...	77·16	91	8·20	12th June ...	2·16	7 16 21 to 22
1860 ...	...	...	...	...	0·03	21·97	22·39	7·11	8·15	2·50	...	...	62·15	93	7·31	13th June ...	1·91	7 16 2 to 3
1861 ...	...	...	...	...	0·69	15·43	25·34	30·35	3·24	1·86	...	...	76·91	99	6·08	18th August ...	2·02	7 14 9 to 10
1862 ...	...	...	...	...	0·01	22·31	15·10	12·65	21·69	1·42	0·45	...	73·63	107	6·16	21st June ...	3·00	9 9 17 to 18
1863 ...	0·41	...	...	0·11	0·07	23·41	30·78	10·60	9·98	2·32	...	...	77·68	109	8·14	24th July ...	1·84	7 24 17 to 18
1864 ...	...	...	...	...	0·01	15·42	13·36	10·72	5·59	...	0·47	...	45·57	95	3·56	26th June ...	1·07	8 27 1 to 2
1865 ...	0·38	...	...	...	...	10·61	18·28	36·42	4·86	6·16	1·14	...	77·85	104	7·86	2nd July ...	1·05	8 14 14 to 15
1866 ...	...	0·11	...	...	...	13·47	40·34	20·34	3·44	0·74	...	...	78·44	98	7·63	11th July ...	2·62	8 2 14 to 15
1867 ...	...	...	...	...	...	8·70	29·39	12·21	6·80	5·07	0·13	...	62·30	110	5·41	16th July ...	1·93	7 5 0 to 1
1868 ...	...	...	0·01	...	...	13·52	20·43	20·29	7·71	0·14	0·02	...	62·12	107	10·23	9th August ...	1·00	7 16 12 to 13
1869 ...	...	...	...	...	0·03	26·22	23·89	15·24	22·56	3·55	0·05	0·12	91·66	102	15·31	27th June ...	1·11	7 12 18 to 19
1870 ...	...	...	0·03	0·02	...	21·73	26·43	6·27	7·08	4·65	...	...	66·21	109	4·71	18th June ...	1·43	10 13 19 to 20
1871 ...	2·22	...	...	...	1·25	8·91	9·96	8·95	6·01	0·25	2·97	0·06	40·58	107	4·64	31st August ...	1·88	8 31 21 to 22
1872 ...	...	...	...	...	0·06	24·43	24·84	9·49	16·59	1·07	...	...	76·48	98	9·23	12th September ...	4·13	9 12 23 to 24
1873 ...	...	0·05	...	...	0·51	20·36	16·98	23·96	7·77	0·07	...	...	69·70	101	6·23	24th August ...	No hourly observations are available.	
1874 ...	...	...	...	...	0·05	18·68	41·24	11·14	11·05	0·02	...	...	82·18	103	4·48	21st July ...		
1875 ...	0·47	0·05	...	...	...	23·97	15·14	11·95	31·51	...	...	...	83·09	97	8·14	5th September ...	1·29*	8 30 15 to 16
1876 ...	...	...	...	...	0·01	12·97	23·69	8·66	4·71	...	...	...	50·04	83	7·59	26th July ...	1·33	7 26 1 to 2
1877 ...	0·23	0·51	0·02	...	...	34·61	10·75	10·78	6·60	6·39	...	...	69·89	99	14·60	19th June ...	3·21	6 19 17 to 18
1878 ...	0·03	...	...	0·02	0·03	20·49	47·64	20·02	16·90	4·17	2·63	...	111·93	113	5·55	5th July ...	1·32	7 3 14 to 15
1879 ...	...	...	0·03	...	5·23	16·56	11·21	22·36	5·61	0·40	...	...	61·40	111	3·78	30th July ...	2·03	6 24 22 to 23
1880 ...	...	0·01	0·02	...	...	21·48	18·37	4·08	22·80	1·18	...	...	67·94	109	8·20	2nd July ...	2·55	7 2 7 to 8
1881 ...	...	...	0·04	...	0·36	15·29	29·47	19·06	4·56	4·17	0·09	...	73·04	113	11·30	3rd August ...	1·61	8 3 9 to 10
1882 ...	...	0·04	0·02	0·08	0·02	27·54	26·94	3·36	10·08	1·12	0·03	...	69·23	105	10·18	3rd June ...	2·42	6 3 1 to 2
1883 ...	0·12	...	...	...	0·33	13·65	39·88	12·57	12·37	10·40	0·86	...	90·18	123	6·85	13th July ...	1·66	7 9 16 to 17
1884 ...	0·03	...	...	...	...	13·25	25·87	15·29	17·04	2·22	0·60	1·14	75·44	110	7·37	13th July ...	2·06	7 13 21 to 22
1885 ...	...	...	...	...	0·02	5·11	21·81	25·42	12·01	3·54	...	...	67·91	113	10·29	15th August ...	3·01	8 15 12 to 13
1886 ...	...	...	...	0·01	0·96	43·45	35·79	10·69	6·54	1·69	0·61	...	99·74	110	16·10	18th June ...	2·69	6 18 8 to 9
1887 ...	...	...	...	0·02	0·09	24·07	30·98	17·59	18·23	2·79	1·02	0·16	94·95	112	7·84	10th September ...	2·06	7 3 4 to 5
1888 ...	1·85	0·02	0·10	...	...	15·76	22·47	11·43	4·92	0·11	1·16	...	57·82	107	4·66	14th July ...	2·39	9 11 4 to 5
1889 ...	...	...	...	...	0·67	19·89	30·45	10·32	2·71	3·80	...	...	67·84	103	4·04	8th July ...	1·18	7 18 11 to 12
1890 ...	...	...	...	0·01	0·06	24·55	21·54	10·61	6·45	0·58	1·25	0·13	65·18	116	4·61	19th June ...	1·29	7 12 10 to 11
1891 ...	...	...	0·20	...	...	13·99	32·48	6·94	22·53	1·04	...	...	77·18	100	5·82	1st September ...	1·59	6 23 0 to 1
1892 ...	...	...	...	...	0·11	13·30	23·86	36·56	18·73	1·89	0·67	...	95·12	114	5·43	31st August ...	1·85	6 22 3 to 4
1893 ...	...	0·14	...	0·02	6·30	21·47	16·14	13·55	7·54	0·45	1·63	...	67·24	124	4·97	20th June ...	1·50	6 10 2 to 3
1894 ...	0·22	...	0·06	0·01	...	16·87	26·16	8·40	12·04	3·08	...	0·01	66·85	124	4·77	21st July ...	1·60	9 9 10 to 11
1895 ...	...	0·07	...	...	0·08	17·84	18·04	15·97	11·91	3·62	0·06	...	67·59	109	6·82	7th September ...	1·42	8 7 6 to 7
1896 ...	...	...	...	...	0·26	28·02	36·44	20·77	1·62	0·01	0·53	...	87·65	102	6·21	22nd June ...	2·10	7 4 18 to 19
1897 ...	0·01	...	...	...	...	14·30	30·19	13·82	20·60	2·51	...	...	81·53	108	4·92	16th July ...	1·85	6 13 6 to 7
1898 ...	...	0·17	...	...	0·16	27·21	20·72	5·28	19·94	0·48	0·13	...	74·09	110	5·13	11th September ...	1·60	6 18 7 to 8
1899 ...	...	...	...	1·57	0·08	20·81	4·72	5·23	3·49	...	...	...	35·90	87	6·58	15th June ...	2·34	6 15 10 to 11
1900 ...	...	...	...	...	...	18·26	25·75	17·62	7·49	...	...	...	69·12	91	8·04	31st July ...	1·53	6 26 7 to 8
1901 ...	0·74	...	...	0·04	0·01	25·36	32·70	14·27	1·81	0·39	...	...	75·32	98	6·55	13th June ...	2·89	6 19 16 to 17
1902 ...	...	...	...	...	...	9·77	16·96	16·53	27·11	0·78	0·01	0·81	71·97	100	6·74	17th September ...	1·36	8 20 19 to 20
1903 ...	...	...	0·17	...	7·79	19·75	24·82	18·23	7·82	5·91	...	...	84·49	111	6·03	20th August ...	1·66	5 25 12 to 13
1904 ...	...	...	0·07	...	0·02	15·10	10·14	5·72	1·81	0·56	...	...	33·42	90	3·33	11th June ...	1·20	6 11 7 to 8
1905 ...	...	0·08	...	...	...	6·53	15·30	4·35	6·16	0·20	1·04	...	33·66	89	4·00	1st July ...	2·11	6 26 5 to 6
1906 ...	...	0·15	...	...	...	13·20	18·10	20·91	3·94	...	...	...	56·30	95	4·89	26th August ...	1·35	8 26 11 to 12
1907 ...	...	0·27	...	0·06	...	22·49	59·26	15·93	2·75	0·02	...	...	100·78	94	8·84	22nd July ...	2·91	7 4 0 to 1
1908 ...	0·10	0·06	0·06	...	...	15·19	21·13	9·67	6·71	0·62	...	...	53·54	100	4·30	1st July ...	1·11	6 22 12 to 13
1909 ...	...	...	...	...	...	16·68	31·37	7·82	15·35	...	...	...	71·22	100	4·07	9th July ...	1·58	6 22 9 to 10
1910 ...	0·[illegible]	...	...	...	0·03	23·92	7·42	16·89	18·84	0·62	0·14	...	67·86	104	8·14	23rd June ...	2·69	9 28 19 to 20
Average of 65 years ...	0·11	0·03	0·01	0·05	0·58	19·87	24·50	13·15	10·43	1·88	0·40	0·05	71·06	104				

* From 1875 maximum fall in one hour is derived from hourly tabulations of Pluviograms. All other figures are derived from observations of Newman's rain-gauge

TABLE XI.—METEOROLOGICAL DATA, 1846–1910.

1846 to 1865. / 1866 to 1910.	Wind. Annual mean Pressure. / Annual mean Velocity.	Average Direction. / Mean Resultant Direction.	Absolute maximum Pressure. / Maximum Hourly mean Velocity.	Maximum mean daily Pressure. / Maximum mean daily Velocity.	Maximum mean monthly Pressure. / Maximum mean monthly Velocity.	Velocity of a single gust of wind as recorded by Dines' Anemometer.		Temperature of Ground. Annual Means. 1 inch deep.	9 inches deep.	20 inches deep.	60 inches deep.	132 inches deep.
	Lb.		Lb.	Lb.	Lb.			°	°	°	°	°
1846 ...	·44	NW	4·16	1·94	0·65							
1847 ...	·39	NW	3·60	1·63	0·65							
1848 ...	·32	NW	5·26	3·21	0·68							
1849 ...	·25	NW	9·00	2·31	0·64					83·6		
1850 ...	·2	WNW	15·00	1·60	0·37					84·1		
1851 ...	·18	NW	8·00	3·00	0·49					81·6	83·5	
1852 ...	·16	NW	10·70	1·00	0·39					81·7	83·6	
1853 ...	·2	NW	7·00	1·40	0·51					81·7	83·6	
1854 ...	·18	NW	35·00	8·06	0·33					82·2	83·9	
1855 ...	·24	NW	13·00	2·05	0·52					81·7	83·6	
1856 ...	·20	NW	16·00	3·08	0·37					82·0	84·0	
1857 ...	·21	NW	9·50	1·29	0·51					80·9	83·0	
1858 ...	·26	NW	12·00	2·38	0·55					80·8	82·5	
1859 ...	·33	NW	11·25	4·29	1·02					81·2	82·9	
1860 ...	·29	WNW	14·00	2·01	0·48			79·6	81·1	82·2	83·6	
1861 ...	·37	WNW	8·75	2·26	0·71			79·0	81·0	82·2	83·9	
1862 ...	·41	NW	10·75	4·02	0·67			80·3	81·6	84·0	84·2	
1863 ...	·38	WNW	7·75	3·05	0·92			79·5	80·7	83·8	84·0	
1864 ...	·32	*WNW	6·25	1·25	0·62			79·7	80·7	83·2	83·6	
1865 ...	·31	WNW	10·50	1·95	0·51			81·0	82·0	84·2	84·5	
	Miles.		Miles.	Miles.	Miles.							
1866 ...	14·4	WNW	59	46·2	22·5			79·3	80·0	82·5	83·3	
1867 ...	12·4	WNW	41	32·1	19·4			79·7	80·1	82·1	83·2	
1868 ...	12·5	WNW	50	39·5	19·9			80·1	80·4	82·2	83·4	
1869 ...	12·4	WNW	59	38·5	20·7			80·8	81·2	82·8	83·7	
1870 ...	11·8	WNW	41	31·5	19·5			80·0	80·6	82·5	83·7	
1871 ...	12·6	WNW	48	32·1	21·3			81·0	81·5	83·0	83·8	
1872 ...	12·2	WNW	46	32·3	19·8			79·8	80·4	82·2	83·1	
1873 ...	12·5	WNW	43	30·0	23·0			80·5	80·4	82·2	83·2	
1874 ...	11·9	WNW	47	36·5	19·6			79·7	79·8	81·6	82·6	
1875 ...	12·1	WNW	45	33·3	21·0			81·0	80·7	82·3	83·1	
1876 ...	12·7	WNW	43	30·7	22·7			81·1	80·9	82·6	83·5	
1877 ...	11·7	WNW	43	33·0	18·7			82·0	81·6	83·0	83·8	
1878 ...	11·6	WNW	47	30·7	15·7			81·9	81·6	83·3	84·0	
1879 ...	12·4	WNW	56	39·5	17·2			80·6	80·3	81·9	82·9	82·6
1880 ...	12·0	WNW	34	30·8	19·7			81·6	80·9	82·5	82·9	82·4
1881 ...	12·3	WNW	40	31·6	20·5			82·3	81·7	83·4	84·2	83·4
1882 ...	11·8	WNW	53	34·2	20·3			81·3	80·9	82·9	83·8	83·3
1883 ...	12·2	WNW	45	31·8	20·4			80·9	80·7	82·6	83·8	83·2
1884 ...	12·1	WNW	36	29·0	18·6			80·8	80·8	82·7	83·4	82·8
1885 ...	12·4	WNW	56	41·1	18·4			81·2	81·2	83·1	83·6	82·7
1886 ...	11·7	WNW	48	35·2	16·9			81·4	81·5	83·5	84·1	83·4
1887 ...	12·0	WNW	44	30·2	20·6			80·8	80·7	82·6	83·4	82·8
1888 ...	12·0	WNW	50	27·3	19·9			82·2	82·0	83·7	84·1	83·1
1889 ...	11·5	WNW	59	39·8	17·2			81·8	81·8	83·7	84·5	83·8
1890 ...	12·1	WNW	40	26·4	20·4			81·4	81·4	83·3	84·0	83·4
1891 ...	12·0	WNW	41	33·2	18·1			81·7	81·5	83·4	84·1	83·5
1892 ...	11·0	W	48	31·6	19·0			81·9	81·9	83·7	84·4	83·6
1893 ...	11·1	WNW	39	30·0	14·6			80·9	80·8	82·9	83·6	82·8
1894 ...	10·9	WNW	42	34·1	17·5			81·6	81·6	83·7	84·4	83·6
1895 ...	11·1	WNW	44	30·7	17·3			81·5	81·6	83·5	84·2	83·5
1896 ...	11·1	WNW	46	36·4	20·4			82·6	82·5	84·5	84·8	84·0
1897 ...	10·7	WNW	37	26·1	15·1			81·3	81·6	83·9	84·9	84·1
1898 ...	10·7	WNW	35	22·9	16·2	41	60	82·5	83·5	86·3	86·3	84·6
1899 ...	9·8	WNW	30	20·7	15·7	40	58	82·2	83·7	86·5	86·8	85·2
1900 ...	10·3	WNW	39	26·8	16·6	49	71	82·2	83·9	86·8	87·1	85·7
1901 ...	10·4	WNW	42	27·4	16·1	52	76	82·2	83·7	86·7	87·1	85·6
1902 ...	10·0	WNW	40	28·9	15·3	40	58	83·1	84·8	87·6	87·8	86·3
1903 ...	10·3	WNW	63	42·1	16·0	60	87	81·1	82·9	86·0	86·6	85·5
1904 ...	10·3	WNW	31	22·3	15·9	49	71	82·3	83·8	86·7	86·9	85·4
1905 ...	9·8	WNW	36	26·0	15·1	42	61	81·5	83·1	86·1	86·6	85·4
1906 ...	9·6	WNW	32	22·1	13·7	49	71	81·6	83·1	86·1	86·5	85·2
1907 ...	10·1	WNW	40	26·4	17·0	54	79	82·2	83·7	86·5	86·6	85·4
1908 ...	10·1	WNW	36	29·9	16·8	41	60	81·3	82·8	85·7	86·1	85·1
1909 ...	9·7	WNW	33	22·2	17·1	46	67	81·2	82·6	85·5	85·9	84·8
1910 ...	9·7	WNW	39	25·7	13·2	44	64	81·3	82·6	85·3	85·5	84·4
Average ...								81·2	81·7	83·5	84·3	84·1

Velocity of single gust by Dines'. / Velocity converted into Beckley's.

* From the year 1864 the average direction is replaced by resultant direction.

TABLES OF DISTURBANCES

REGISTERED BY

MILNE'S SEISMOGRAPH, COLABA SEISMOGRAPHS, OMORI EWING SEISMOGRAPH AND COLABA VERTICAL MOVEMENT (TILT) SEISMOGRAPH.

1906—1910.

S 821—21

NOTE ON THE LIST OF SEISMIC DISTURBANCES RECORDED BY THE DIFFERENT SEISMOGRAPHS AT COLABA.

As already remarked in the Introduction where a brief description of the several instruments in use has been given, seismographic work commenced in this Observatory in 1898 when Milne's Seismograph was received and installed in September 1898 in connection with the international scheme of seismographic work initiated by the British Association for the Advancement of Science. Two other horizontal pendulums designed locally in 1900, which from time to time had to be modified for experimental and investigational purposes, were added to the installation from April 1900, as was also a vertical motion (tilt) seismograph, which was ordered out from England, the detail specification and design of which were also conceived locally, from May 1902. An Omori-Ewing horizontal pendulum was supplemented in November 1907.

Thus the seismographic data and results of investigations have accumulated at the Observatory slowly during the last fifteen years. It is proposed to publish the full data and their discussion in a special volume which it is hoped will be completed and issued at an early date. For this and other reasons the charts of the principal disturbances which usually accompanied the tables in these volumes, have not been included this time, as it is intended that the whole work may be embodied in one special volume indicating all the seismographic work done at this Observatory since its inception in 1898.

TABLE I.—*List of Principal Disturbances registered by Milne's Seismograph at Colaba, Bombay.*

1906.

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Time of Disturbance in G. M. T. End.	Amplitude or half the complete range of maximum motion.	Remarks.
		H. m.	H. m.	H. m.	mm.	
18	1906 January 6 ...	22 9·9	22 13·3	22 34·2	0·4	Sensibility to tilt 1 mm. = 0″·47.
34	,, ,, 15 ...	19 44·3	19 46·0	20 6·0	0·7	
43	,, ,, 21 ...	13 58·8	14 8·2	...	1·5	End lost in shifting time.
62	,, ,, 27 ...	10 17·1	10 28·0	11 33·7	2·3	
78	,, ,, 31 ...	15 56·3	17 18·5	20 5·1	15·2	
79	,, February 1 ...	2 49·0	2 54·0	3 46·5	0·6	
137	,, ,, 19 ...	2 23·6	3 12·9	4 53·9	1·5	
149	,, ,, 23 ...	15 53·7	15 57·8	16 18·5	1·0	
153	,, ,, 24 ...	9 24·4	9 25·4	9 32·8	0·7	
167	,, ,, 26 ...	10 41·6	10 42·2	10 49·8	0·5	
175	,, ,, 27 ...	19 44·2	19 49·4	21 5·0	8·4	
188	,, March 2 ...	6 25·0	6 30·1	7 18·5	2·6	
192	,, ,, 3 ...	9 59·7	10 7·1	10 59·5	0·6	
217	,, ,, 10 ...	17 24·1	17 30·5	17 46·0	0·6	
227	,, ,, 13 ...	14 1·4	14 6·3	14 32·0	0·5	
236	,, ,, 16-17 ...	22 57·2	23 10·4	0 46·1	2·5	
246	,, ,, 20 ...	3 58·5	4 2·5	4 30·2	1·0	
262	,, ,, 26 ...	1 48·4	1 48·7	1 51·6	1·1	
267	,, ,, 27 ...	5 48·3	6 3·4	6 51·4	0·8	
272	,, ,, 28 ...	19 1·3	19 16·1	19 43·2	0·7	
315	,, April 10 ...	22 39·1	22 51·5	23 40·0	1·0	
317	,, ,, 11 ...	11 23·4	11 38·7	12 50·9	1·0	
326	,, ,, 13 ...	19 32·8	19 46·0	20 21·7	1·1	
345	,, ,, 18 ...	13 40·8	14 34·1	17 4·3	6·3	
351	,, ,, 19 ...	7 52·8	8 1·8	8 24·7	0·3	
389	,, ,, 29 ...	16 21·5	16 54·9	17 29·3	1·9	
396	,, May 2 ...	1 42·7	1 47·2	1 57·4	0·3	
420	,, ,, 12 ...	5 53·5	6 1·4	6 21·1	1·9	
425	,, ,, ,, ...	11 16·8	11 24·4	11 38·1	0·8	
464	,, June 1 ...	4 41·9	5 22·2	6 35·1	2·0	
484	,, ,, 10 ..	20 51·6	21 3·3	21 33·6	1·0	
506	,, ,, 19 ...	11 24·4	11 56·8	12 36·9	0·9	
527	,, ,, 24 ...	11 23·2	11 34·9	13 6·3	7·0	

1906—*continued.*

Observatory number.	Date.			Time of Disturbance in G. M. T. Beginning. H.	m.	Maximum. H.	m.	End. H.	m.	Amplitude or half the complete range of maximum motion. mm.	Remarks.
577	1906 July	14	...	0	43·4	0	55·1	1	16·1	0·8	
620	,, August	1-2	...	23	59·6	0	6·4	0	22·5	0·5	Sensibility to tilt 1 mm. = 0″·37.
657	,, ,,	17	...	0	27·1	...		4	34·3	...	Traces overlap due to intensity of the disturbance, and hence maximum phase cannot be ascertained.
685	,, ,,	25	...	12	6·6	12	15·5	12	28·6	0·9	
687	,, ,,	,,	...	14	0·2	14	9·3	15	4·2	5·0	
715	,, ,,	30	...	3	46·3	4	6·8	4	48·7	1·3	
721	,, ,,	31	...	15	2·9	15	6·4	15	21·2	0·9	
752	,, September	7	...	19	10·8	19	37·1	20	36·0	2·1	
776	,, ,,	14	...	14	6·8	14	12·1	14	39·8	0·7	
777	,, ,,	,,	...	16	16·3	17	2·4	19	21·0	2·4	
806	,, ,,	20	...	18	46·9	18	54·9	19	7·9	0·7	
841	,, October	2	...	2	12·9	2	51·2	4	48·9	1·7	
856	,, ,,	6	...	12	55·4	13	3·7	13	27·1	0·4	
867	,, ,,	10	...	13	9·3	13	31·3	13	56·1	0·8	
868	,, ,,	10-11	...	23	25·6	23	38·7	0	9·2	0·9	
881	,, ,,	17	...	9	54·4	10	14·4	11	1·6	1·6	
895	,, ,,	24	...	14	50·1	14	55·8	...		15·4	End lost in shifting time.
903	,, ,,	31	...	2	19·2	2	21·0	2	57·4	0·7	
946	,, November	14	...	18	9·5	18	37·9	19	20·7	0·6	
957	,, ,,	19	...	7	27·9	7	52·4	9	42·0	8·7	
978	,, ,,	28	..	10	10·6	10	27·6	10	55·5	0·6	
1037	,, December	19	...	1	44·3	2	30·2	4	8·7	1·9	
1047	,, ,,	22	...	18	26·9	18	39·1	20	57·0	9·0	
1051	,, ,,	23	...	7	40·6	8	0·6	8	43·2	0·6	
1052	,, ,,	,,	...	17	45·2	18	22·7	20	14·8	4·0	
1065	,, ,,	26	...	6	13·6	7	18·8	7	57·7	1·0	

1907.

3	1907 January	1	...	0	54·5	1	4·9	1	49·0	0·6	Sensibility to tilt 1 mm. = 0″·37.
14	,, ,,	2	...	12	23·6	13	14·0	...		1·8	End lost in shifting time.
24	,, ,,	4	...	5	25·5	...		8	44·5	...	Traces overlap due to intensity of the disturbance, and hence maximum phase cannot be ascertained.
46	,, ,,	8	...	5	48·2	6	20·1	7	7·2	0·5	
60	,, ,,	12	...	8	38·6	8	47·2	9	8·9	0·4	
77	,, ,,	19	...	13	42·8	13	45·3	14	6·4	0·5	
130	,, February	9	...	4	48·9	4	50·6	5	4·8	0·5	
153	,, ,,	24	...	7	53·4	8	2·5	8	33·2	0·5	
229	,, March	29	...	20	54·6	21	15·8	21	51·1	1·0	
232	,, ,,	31	...	22	19·6	22	29·3	23	22·4	1·2	
261	,, April	15	...	6	28·6	7	43·5	9	11·4	7·0	
271	,, ,,	18	...	21	15·9	21	30·3	22	54·7	3·5	
272	,, ,,	19	...	0	8·5	0	24·9	1	32·4	3·0	
287	,, ,,	26	...	19	17·2	19	27·1	19	37·3	0·3	
300	,, May	4	...	8	49·3	9	17·7	9	33·1	0·5	
307	,, ,,	7	...	10	46·1	10	50·1	...		0·5	End masked by tremors.
328	,, ,,	25	...	12	6·4	12	23·5	13	11·0	0·5	
329	,, ,,	,,	...	14	20·4	14	37·4	15	12·3	0·9	
334	,, June	1	...	9	57·1	10	15·0	11	0·6	1·2	
340	,, ,,	5	...	4	32·6	5	2·7	5	37·6	1·0	
348	,, ,,	10	...	19	2·5	19	33·3	19	58·3	0·7	
383	,, ,,	25	...	18	1·7	18	16·8	19	7·2	1·3	Sensibility to tilt 1 mm. = 0″·42.

1907—*continued.*

Observatory number.	Date.			Time of Disturbance in G. M. T. Beginning.		Maximum.		End.		Amplitude or half the complete range of maximum motion.	Remarks.
				H.	m.	H.	m.	H.	m.	mm.	
404	1907 July	9	...	19	11·8	19	33·5	20	1·8	0·8	
407	„ „	12	...	17	22·0	17	24·0	17	36·5	1·0	
423	„ „	20	...	13	54·9	14	16·1	14	34·2	2·0	
449	„ „	29	...	19	47·0	20	3·1	20	24·4	0·4	
470	„ August	5	...	7	55·9	8	1·6	8	20·4	0·5	
499	„ „	17	...	17	43·6	18	16·5	18	46·6	0·5	
533	„ September	2	...	16	24·3	16	48·1		...	7·3	The end of previous disturbance merges into the beginning of another immediately following.
534	„ „	„	...		...	18	34·5	19	31·5	1·5	
584	„ October	4	...	10	41·1	10	51·7	11	35·5	2·1	
597	„ „	11	...	14	52·1	15	23·4		...	0·9	End lost in shifting time.
604	„ „	16	...	14	58·8		...	16	14·5	...	Maximum phase lost in shifting time.
611	„ „	21	...	4	22·6		...	6	58·3	...	Traces overlap due to intensity of the disturbance, and hence maximum phase cannot be ascertained.
621	„ „	27	...	5	24·8	5	30·2	5	59·2	3·1	
641	„ November	16	...	22	29·3	22	35·1	22	50·8	0·4	
648	„ „	21	...	20	8·8	20	18·7	21	17·2	6·8	
649	„ „	22	...	6	19·4	6	22·3	6	33·4	0·5	
650	„ „	24	...	14	16·4	14	29·2	14	59·3	0·4	
666	„ December	5	...	12	53·5	12	59·8	13	19·3	0·3	
699	„ „	30	...	6	49·1	7	0·3	7	39·3	2·2	Beginning uncertain as it is masked by tremors.

1908.

9	1908 January	11	...	3	43·0	4	3·4	5	2·3	3·5	Sensibility to tilt 1 mm. = 0″·42.
11	„ „	12	...	10	27·9	10	29·5	10	42·1	1·2	
15	„ „	15	...	13	16·1	13	41·2	14	14·7	1·1	
46	„ February	9	...	18	16·9	18	27·8	19	13·4	4·6	
79	„ March	5	...	2	26·9	2	52·8	3	57·3	1·9	
88	„ „	13	...	6	32·7	6	33·5	6	47·1	0·7	
99	„ „	21	...	4	18·8	4	25·3	4	30·2	0·5	
103	„ „	23	...	12	31·6	12	57·4	13	36·5	0·8	
111	„ „	26-27	...	23	24·1	0	31·5	1	47·6	2·3	Sensibility to tilt 1 mm. = 0″·41.
112	„ „	27	...	4	27·9	5	22·6	6	3·4	0·6	
120	„ April	2	...	6	2·5	6	23·9	6	41·4	0·4	
122	„ „	4	...	6	24·0	6	31·2	6	50·5	0·4	
126	„ „	10	...	0	16·1	0	25·0	0	45·0	0·5	
135	„ „	16	...	17	45·2	17	50·3	18	11·1	0·3	
137	„ „	19	...	8	11·4	8	22·2	8	47·2	0·3	
138	„ „	23	...	0	3·8	0	16·5	1	23·1	0·6	
151	„ May	5	...	6	33·0	6	58·0	7	43·4	2·3	
152	„ „	„	...	11	24·9	11	27·9	12	0·6	1·5	
163	„ „	15	...	9	20·1	9	34·6	10	18·8	2·4	
165	„ „	20	...	7	59·2	8	15·7	8	36·5	0·4	
170	„ June	3	...	16	0·2	16	3·5	16	31·3	1·0	
200	„ „	28	...	17	13·5	17	14·1	17	17·5	0·6	
239	„ July	13	...	21	44·8	21	49·4	22	6·1	0·5	
253	„ „	26	...	16	19·6	16	26·7	16	44·5	0·5	
254	„ „	„	...	17	30·5	17	39·1	17	58·4	0·4	
292	„ August	17	...	11	34·1	11	43·7	13	16·2	1·5	

1908—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Maximum.	End.	Amplitude or half the complete range of maximum motion.	Remarks.
		H. m.	H. m.	H. m.	mm.	
296	1908 August 20 ...	10 1·7	10 4·6	11 4·3	5·8	
301	„ „ 22 ...	12 13·4	12 13·8	12 20·1	0·3	
317	„ September 9 ...	6 50·8	6 51·2	7 3·5	1·0	
332	„ „ 23 ...	7 13·5	7 19·0	7 42·0	1·1	
336	„ „ 26 ...	6 8·5	6 17·6	6 33·5	0·6	
339	„ „ 28 ...	6 49·3	6 49·5	7 3·3	0·4	
343	„ October 13 ...	6 23·5	6 35·7	7 6·3	0·5	
347	„ „ 20 ...	3 1·3	3 14·4	3 31·4	0·5	
350	„ „ 23 ...	20 20·7	20 24·8	20 32·5	0·6	
351	„ „ 24 ...	21 23·3	21 23·9	21 35·0	0·7	
353	„ November 2 ...	5 22·4	5 35·9	6 43·9	4·2	
354	„ „ „ ...	7 27·8	7 37·6	7 53·0	0·5	
356	„ „ 6 ...	7 29·0	7 48·4	8 38·9	1·0	
357	„ „ „ ...	14 28·5	14 35·5	14 58·6	0·5	
360	„ „ 11 ...	13 27·8	13 50·4	14 20·1	2·2	
361	„ „ 12 ...	16 53·0	16 58·0	17 4·0	0·2	
362	„ „ „ ...	22 6·1	22 16·2	22 21·3	0·3	
369	„ „ 23 ...	12 59·8	13 23·7	13 36·2	0·2	
384	„ December 12 ...	13 0·1	13 10·7	13 55·9	3·4	
385	„ „ „ ...	19 9·2	19 27·7	19 44·3	0·3	
390	„ „ 18 ...	...	15 48·3	16 41·7	3·7	Commencement lost in shifting time.
396	„ „ 28 ...	4 30·3	4 57·3	6 14·0	2·2	

1909.

11	1909 January 22 ...	12 43·6	12 52·5	13 0·1	0·6	Sensibility to tilt 1 mm. = 0″·41.
12	„ „ 23 ...	2 57·7	3 15·7	4 32·3	1·4	
22	„ February 2 ...	19 24·8	19 25·5	19 34·9	0·2	
30	„ „ 9 ...	11 36·2	11 47·0	12 16·0	1·0	
31	„ „ „ ...	14 59·8	15 2·9	15 13·5	0·3	
34	„ „ 15 ...	0 55·9	1 7·7	1 13·7	0·3	
35	„ „ 16 ...	8 9·5	8 22·2	8 32·4	0·3	
40	„ „ 22 ...	9 45·6	9 50·6	10 59·5	0·6	
60	„ March 12-13 ...	23 37·8	23 57·3	0 36·1	1·5	
61	„ „ 13 ...	14 40·0	15 11·9	...	2·0	End lost in shifting time.
67	„ „ 17-18 ...	23 4·8	23 29·0	0 16·3	2·0	
74	„ „ 29 ...	9 9·7	9 12·4	9 19·8	0·2	
84	„ April 9 ...	7 3·0	7 4·1	7 12·2	0·2	
87	„ „ 10 ...	6 23·9	6 46·1	7 40·0	0·3	
88	„ „ „ ...	18 56·0	19 28·6	...	0·9	End cannot be determined as it merges in the beginning of another disturbance.
89	„ „ „ ...	20 2·2	20 22·7	21 29·8	4·9	
90	„ „ 11 ...	14 42·6	14 48·7	15 5·5	0·8	
93	„ „ 12 ...	2 42·1	2 47·9	2 53·9	0·4	
95	„ „ 14 ...	20 2·5	20 20·5	20 36·5	0·2	
104	„ „ 25 ...	23 6·9	23 14·7	23 30·1	0·4	
107	„ „ 27 ...	13 4·0	13 29·8	14 26·7	0·4	
108	„ „ 29 ...	22 58·1	23 5·0	23 28·2	0·5	
122	„ May 10 ...	20 27·6	20 30·8	20 36·8	0·2	
124	„ „ 12 ...	1 31·0	1 40·3	1 59·7	0·3	
125	„ „ 17 ...	8 24·7	8 37·3	...	0·9	Sensibility to tilt 1 mm. = 0″·36. The end of previous disturbance merges into the beginning of another immediately following.
126	„ „ „ ...	...	9 28·7	10 31·6	0·8	

1909—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Time of Disturbance in G. M. T. End.	Amplitude or half the complete range of maximum motion.	Remarks.
		H. m.	H. m.	H. m.	mm.	
136	1909 May 30 ...	21 22·1	21 42·3	22 4·6	0·5	
141	„ June 3 ...	18 47·2	...	21 13·1	...	Traces overlap due to intensity of the disturbance, and hence maximum phase cannot be ascertained.
145	„ „ 8 ...	6 20·3	7 12·9	...	2·5	End masked by tremors.
148	„ „ 9 ...	1 46·2	1 53·8	2 21·1	0·5	
155	„ „ 12 ...	21 3·4	21 13·8	21 49·9	1·0	
190	„ July 7 ...	21 41·9	21 45·7	23 33·4	15·2	Sensibility to tilt 1 mm. = 0″·37.
222	„ „ 23 ...	20 27·2	20 40·2	20 58·8	0·2	Sensibility to tilt 1 mm. = 0″·36.
227	„ „ 26 ...	10 58·6	11 4·3	11 35·2	1·1	
241	„ „ 30 ...	...	12 25·1	13 31·9	0·9	Beginning masked by tremors.
243	„ „ 31 ...	...	12 8·0	...	0·3	Beginning and end masked by tremors.
245	„ „ „ ...	20 35·0	20 51·6	21 38·0	0·2	
248	„ August 2 ...	10 27·1	10 29·1	10 41·9	0·2	
254	„ „ 14 ...	6 49·1	7 4·5	7 32·3	1·0	
259	„ „ 16 ...	8 21·6	8 30·3	9 2·3	0·3	
265	„ „ 22 ...	15 48·5	15 51·4	15 56·4	0·3	
277	„ September 8 ...	17 12·9	17 48·5	18 14·1	0·6	
288	„ „ 16 ...	19 4·3	19 13·1	19 20·2	0·2	
336	„ October 20-21 ...	23 45·3	23 47·9	1 30·7	16·1	
345	„ „ 30 ...	10 36·5	10 54·6	11 15·6	0·3	
347	„ „ 31 ...	11 43·8	11 49·9	12 37·1	0·5	
349	„ November 10 ...	6 22·7	6 42·3	7 48·9	1·8	
357	„ „ 21 ...	8 2·4	8 9·2	8 26·3	0·8	
372	„ December 9 ...	16 19·5	16 48·9	17 29·3	0·7	
373	„ „ „ ...	22 8·1	22 30·8	22 43·8	0·4	
374	„ „ 9-10 ...	23 48·1	0 6·0	0 31·2	0·5	
379	„ „ 22 ...	13 47·5	13 58·6	14 13·5	0·3	

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1910.

3	1910 January 1 ...	11 42·4	12 30·2	13 32·5	0·5	
15	„ „ 22 ...	9 15·7	9 38·7	10 27·3	0·8	
18	„ „ 30 ...	4 27·2	4 48·5	5 36·5	1·0	
26	„ February 4 ...	14 49·6	15 5·8	...	0·5	End lost in shifting time.
30	„ „ 12 ...	18 27·1	18 49·2	19 6·9	0·4	
56	„ March 25 ...	16 45·2	16 46·8	17 14·2	0·3	
59	„ „ 30 ...	17 20·0	18 1·0	19 33·8	1·0	
60	„ „ 31 ...	19 6·9	19 23·1	19 59·7	0·6	
71	„ April 12 ...	0 30·2	0 49·2	1 34·6	1·8	
77	„ „ 16 ...	12 48·0	13 6·9	13 24·7	0·4	
78	„ „ 17 ...	1 43·0	1 52·0	2 1·9	0·3	
89	„ „ 27 ...	2 52·9	2 57·2	3 18·8	0·4	
95	„ May 1 ...	18 53·9	19 37·6	20 11·7	1·2	
110	„ „ 13 ...	8 40·1	8 58·0	9 37·3	0·3	
113	„ „ 18 ...	9 21·7	9 31·1	9 50·3	0·8	
117	„ „ 22 ...	6 44·6	7 3·2	7 42·9	1·0	
125	„ June 1 ...	6 20·3	7 0·8	8 45·3	0·7	Sensibility to tilt 1 mm. = 0″·41.
133	„ „ 9 ...	12 24·2	12 27·4	12 35·0	0·1	
143	„ „ 16 ...	6 45·1	7 4·8	9 28·9	2·4	
			7 36·8		2·2	
145	„ „ 17 ...	5 58·7	5 59·8	6 3·9	0·2	
157	„ „ 25 ...	19 37·8	19 46·1	20 5·1	0·7	
161	„ „ 29 ...	11 14·0	12 2·5	13 21·3	0·8	
168	„ July 7 ...	8 29·8	8 49·4	9 29·7	2·6	

1910—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning. H.	m.	Maximum. H.	m.	End. H.	m.	Amplitude or half the complete range of maximum motion. mm.	Remarks.
169	1910 July 12 ...	7	42·2	7	43·7	7	50·8	0·2	
176	„ „ 21 ...	22	19·4	22	22·1	22	38·6	0·6	
183	„ „ 29 ...	10	47·7	11	28·0	11	50·3	0·4	
196	„ August 13 ...	8	0·8	8	1·8	8	7·1	0·3	
197	„ „ „ ...	21	27·3	21	29·9	21	33·3	0·2	
202	„ „ 17 ...	12	1·9	12	6·8	13	9·8	4·6	
204	„ „ 21 ...	6	0·7	6	5·1	6	30·0	0·4	
212	„ September 1 ...	0	59·6	1	17·4	1	39·0	2·0	
213	„ „ „ ...	14	39·7	14	54·7	15	23·3	0·6	
221	„ „ 6 ...	21	16·4	21	27·2	21	56·9	0·4	
222	„ „ 7 ...	7	58·0	8	10·2	8	25·6	0·3	
223	„ „ 9 ...	1	30·5	2	13·6	2	43·2	1·2	
229	„ „ 16 ...	23	27·6	23	36·0	23	56·6	0·2	
253	„ October 5 ...	0	14·4	0	27·9	0	48·0	0·4	Sensibility to tilt 1 mm. = 0″·37.
256	„ „ 7 ...	16	9·7	16	16·2	16	27·8	0·3	
265	„ „ 18 ...	3	42·3	3	44·3	3	58·3	0·3	
268	„ „ 20 ...	5	15·0	5	25·9	5	50·8	2·4	
285	„ November 9 ...	6	20·3	7	10·0	9	46·2	7·8	
292	„ „ 14 ...	7	50·5	8	10·7	9	6·5	0·4	
293	„ „ 15 ...	14	46·7	15	22·1		...	2·2	End lost in shifting time.
298	„ „ 24 ...	15	45·2	15	55·2	16	11·2	0·5	
301	„ „ 26 ...	4	59·5	5	50·4	7	42·4	1·6	
306	„ „ 29 ...	2	51·7	2	56·8	3	19·8	0·9	
310	„ December 1 ...	16	3·2	16	22·4	16	39·3	0·9	
312	„ „ 3 ...	8	39·7	8	52·0	9	1·4	0·3	
314	„ „ 4 ...	11	45·4	12	3·8	12	30·2	0·3	
318	„ „ 10 ...	9	43·2	10	28·2	12	27·0	1·5	
322	„ „ 13 ...	11	46·3	12	5·9	15	22·0	11·3	
325	„ „ 16 ...	14	55·2	15	26·1		...	8·2	End lost in shifting time.
326	„ „ „ ...	18	57·9	19	27·9	20	10·0	1·1	
327	„ „ 18 ...	3	2·5	3	23·1	3	51·5	0·5	
333	„ „ 23 ...	1	0·2	1	5·7	1	50·5	1·1	
337	„ „ 29 ...	13	22·0	13	42·1	14	5·7	0·5	
338	„ „ 30 ...	0	56·7	1	10·0	1	34·5	0·5	

TABLE IIa.—*List of principal Disturbances registered by Colaba (E.—W.) Seismograph at Bombay (1906—1910).*

Observatory number.	Date.			Time of Disturbance in G. M. T. Beginning. H.	m.	Maximum. H.	m.	Amplitude of half the complete range of maximum motion.	Remarks.
								mm.	
1	1906 January	21	...	13	58·9	14	6·7	0·5	Sensibility to tilt 1 mm.=0″·11.
2	„ „	27	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
3	„ „	31	...	15	56·7	16	50·8	6·0	Sensibility to tilt 1 mm.=0″·10.
4	„ February	19	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
5	„ „	27	..	19	47·2	19	49·9	1·2	Sensibility to tilt 1 mm.=0″·12.
6	„ March	2	...	6	24·8	...		...	Do. =0″·08; maximum phase not well defined.
7	„ „	16-17	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
8	„ „	26	...	1	48·3	...		...	Sensibility to tilt 1 mm.=0″·04; maximum phase not well defined.
9	„ April	18	...	13	42·5	14	29·0	3·8	Sensibility to tilt 1 mm.=0″·14.
10	„ May	12	...	5	54·0	6	1·5	2·0	Sensibility to tilt 1 mm.=0″·06.
11	„ „	„	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
12	„ June	1	...	...		...		...	Disturbance partially recorded.
13	„ „	24	...	11	23·1	11	34·8	0·7	Sensibility to tilt 1 mm.=0″·11.
14	„ August	17	...	...		...		...	Record very faint.
15	„ „	30	...	...		...		...	Movements very small and difficult to locate the phases exactly.
16	„ „	31	...	...		...		...	Do. do.
17	„ September	7	...	...		...		...	Do. do.
18	„ „	14	...	...		...		...	Do. do.
19	„ October	2	...	...		...		...	Do. do.
20	„ „	17	...	...		...		...	Do. do.
21	„ „	24	...	14	50·7	14	54·6	16·0	Sensibility to tilt 1 mm.=0″·09.
22	„ „	31	...	...		...		...	Movements very small and hence difficult to locate phases exactly.
23	„ November	19	...	...		...		...	Owing to shifting of zero the lines are intermingled and it is therefore difficult to determine the phases exactly.
24	„ December	19	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
25	„ „	22	...	18	26·8	18	36·2	12·5	Sensibility to tilt 1 mm.=0″·03.
26	„ „	23	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
27	„ „	„	...	18	12·3	18	22·9	0·9	Sensibility to tilt 1 mm.=0″·4.

1907.

1	1907 January	2	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
2	„ „	4	...	5	25·4	5	32·9	45·1	Sensibility 1 mm.=0″·03.
3	„ March	29	...	20	55·0	21	5·5	0·5	Do. =0″·02.
4	„ April	15	...	..		7	27·53	1·5	Commencement lost in shifting time; sensibility to tilt 1 mm.=0″·06.
5	„ June	1	...	9	57·1	...		...	Maximum phase not well defined. Sensibility to tilt 1 mm.=0″·03.
6	„ „	5	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
7	„ „	25	...	18	4·2	18	12·1	1·2	Sensibility to tilt 1 mm.=0·″06.

1907—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion.	Remarks
		H. m.	H. m.	m. m.	
8	1907 July 12 ...	17 22·3	17 24·1	0·4	Sensibility to tilt 1 mm.=0″·06.
9	„ „ 20 ...	13 54·9	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm.=0″·07.
10	„ September 2 ...	16 24·3	16 46·8	5·2	Sensibility to tilt 1 mm.=0″·05.
11	„ October 4 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
12	„ „ 16 ...	...	...	...	Do. do.
13	„ „ 21 ...	4 28·5	4 36·6	29·5	Sensibility 1 mm.=0″·07.
14	„ „ 27 ...	5 23·8	5 29·5	0·7	Do. =0″·06.
15	„ November 21 ...	...	...	...	Owing to shifting of zero the lines are intermingled and it is therefore difficult to determine the phases exactly.

1908.

1	1908 January 11 ...	...	4 3·5	0·5	Commencement lost in shifting time. Sensibility to tilt 1 mm. =0″·06.
2	„ February 9 ...	18 17·4	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm.=0″·04.
3	„ March 5 ...	...	...	..	Movements very small and hence difficult to locate the phases exactly.
4	„ „ 13 ...	...	...	...	Do. do.
5	„ „ 26 ...	...	...	...	Record faulty.
6	„ April 4 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
7	„ „ 10 ...	...	...	...	Do. do.
8	„ „ 23 ...	0 3·9	0 12·1	...	Sensibility to tilt 1· mm.=0″·04
9	„ May 5 ...	...	...	...	Beginning lost in shifting time.
10	„ „ „ ...	11 24·0	11 27·9	0·9	Sensibility to tilt 1 mm.=0″·04.
11	„ „ 15 ...	9 19·1	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm.=0″·04.
12	„ „ 20 ...	...	...	...	Lost in shifting time.
13	„ June 28 ...	17 13·0	17 13·7	0·5	Sensibility to tilt 1 mm.=0″·05.
14	„ July 13 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
15	„ August 17 ...	...	...	...	Do. do.
16	„ „ 20 ...	9 59·7	10 6·0	11·3	Sensibility to tilt 1 mm.=0″·07.
17	„ „ 22 ...	12 13·1	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm.=0″·06.
18	„ September 9 ..	6 50·4	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm.=0″·07.
19	„ „ 23 ...	7 13·0	...	...	Maximum phase not well defined. Sensibility to till 1 mm.=0″·07.
20	„ „ 28 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
21	„ October 13 ...	...	...	...	Do. do.
22	„ „ 20 ...	...	...	...	Do. do.
23	„ „ 23 ...	20 17·2	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm.=0″·06.
24	„ „ 24 ...	21 24·3	21 26·5	1·2	Sensibility to tilt 1 mm.=0″·06
25	„ November 2 ...	5 21·1	5 33·4	4·2	Do.
26	„ „ „ ...	...	...	...	Beginning lost shifting time.
27	„ „ 6 ...	7 29·1	7 47·9	0·7	Sensibility to tilt 1 mm.=0″·06.
28	„ „ „ ...	...	...	...	Movements very small and hence difficult to locate phases exactly.

1908—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion.	Remarks.
		H. m.	H. m.	mm.	
29	1908 November 11 ...	13 27·3	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·06.
30	„ „ 23 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
31	„ December 12 ...	13 0·2	13 11·7	5·0	Sensibility to tilt 1 mm. = 0″·06.
32	„ „ 18 ...	15 40·7	15 46·4	4·5	Do. 1 mm. = 0″·06.
33	„ „ 28 ...	4 29·7	4 42·4	2·1	Do. 1 mm. = 0″·07.

1909.

1	1909	January	22 ...	...	...	...	Owing to shifting of zero the lines are intermingled and it is therefore difficult to determine the phases exactly.
2	„	„	23 ...	...	...	...	Do. do.
3	„	February	2 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
4	„	„	9 ...	11 36·2	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·20.
5	„	„	„ ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
6	„	„	15 ...	...	...	...	Do. do.
7	„	„	16 ...	...	...	...	Do. do.
8	„	„	22 ...	9 45·3	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·18.
9	„	March	12-13 ...	...	...	...	Owing to the failure of minute marks the exact times cannot be determined.
10	„	„	13 ...	14 39·1	15 5·5	1·3	Sensibility to tilt 1 mm. = 0″·20.
11	„	April	10 ...	...	...	...	Portion of disturbance lost in shifting time.
12	„	„	„ ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
13	„	„	„ ...	20 1·4	20 21·0	?	Sensibility to tilt 1 mm. = 0″·18.
14	„	„	11 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
15	„	„	12 ...	...	...	...	Do. do.
16	„	„	14 ...	...	...	...	Do. do.
17	„	„	25 ...	...	...	...	Do. do.
18	„	„	27 ...	...	...	...	Commencement is doubtful.
19	„	„	29 ...	22 58·7	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·17.
20	„	May	17 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
21	„	„	„ ...	...	...	...	Do. do.
22	„	„	30 ...	...	...	...	Do. do.
23	„	June	3 ...	18 47·3	18 59·6	23·4	Sensibility to tilt 1 mm. = 0″·14.
24	„	„	8 ...	...	...	...	Disturbance lost in shifting time.
25	„	„	9 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
26	„	„	12 ...	...	...	...	Do. do.
27	„	July	7 ...	21 41·8	21 45·8	10·5	Sensibility to tilt 1 mm. = 0″·20.
28	„	„	26 ...	10 57·1	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·25.
29	„	„	30 ...	12 25·2	...	...	Do. do. 1 mm. = 0″·25.
30	„	„	31 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
31	„	„	„ ...	...	...	...	Do. do.
32	„	August	14 ...	...	...	...	Lost in shifting time.
33	„	„	16 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.

1909—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion.	Remarks.
		H. m.	H. m.	mm.	
34	1909 September 7 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
35	„ „ 8 ...	...	...	...	Do. do.
36	„ October 20 ...	23 45·1	23 47·6	8·2	Sensibility to tilt 1 mm. = 0″·36.
37	„ „ 30 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
38	„ „ 31 ...	...	...	...	Do. do.
39	„ November 10 ...	6 20·6	6 29·7	2·0	Sensibility to tilt 1 mm. = 0″·20.
40	„ „ 21 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
41	„ December 9 ...	...	...	...	Do. do.
42	„ „ „ ...	22 8·2	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·18.
43	„ „ „ ...	23 48·6	...	...	Do. do. 1 mm. = 0″·18.
44	„ „ 22 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.

1910.

1	1910 January	1 ...	11 39·7	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·18.
2	„ „	22 ...	9 7·7	...	...	Do. do. 1 mm. = 0″·17.
3	„ February	4 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
4	„ „	12 ...	18 27·0	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·20.
5	„ March	25 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
6	„ „	30 ...	17 20·7	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·19.
7	„ „	31 ...	...	...	...	The smoked paper spoiled by insects all over and the commencement cannot be well distinguished.
8	„ April	12 ...	0 30·3	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·19.
9	„ „	16 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
10	„ „	17 ...	...	...	...	Do. do.
11	„ May	1 ...	...	...	...	Do. do.
12	„ „	18 ...	...	...	...	Do. do.
13	„ „	22 ...	6 44·1	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·12.
14	„ June	1 ...	...	...	...	Lost in shifting time.
15	„ „	9 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
16	„ „	16 ...	6 45·1	...	...	Maximum phase not well defined. Sensibility to tilt 1 mm. = 0″·15.
17	„ „	25 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
18	„ „	29 ...	...	...	...	Do. do.
19	„ July	7 ...	8 29·2	8 43·3	1·7	Sensibility to tilt 1 mm. = 0″·17.
20	„ „	21 ...	22 18·9	...	...	Do. 1 mm. = 0″·20; maximum phase not well defined.
21	„ „	29 ...	10 47·7	...	...	Sensibility to tilt 1 mm. = 0″·19; maximum phase not well defined.
22	„ August	13 ...	.....	...	...	Movements very small and hence difficult to locate phases exactly.

1910—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion.	Remarks.
		H. m.	H. m.	mm.	
23	1910 August 17 ...	12 2·5	12 7·2	2·0	Sensibility to tilt 1 mm. = 0″·25.
24	„ „ 21 ...	6 0·7	...	...	Do. 1 mm. = 0″·25; maximum phase not well defined.
25	„ Septembe 1 ...	0 59·8	...	...	Do. 1 mm. = 0″·23; do.
26	„ „ „ ...	14 39·5	...	...	Do. 1 mm. = 0″·24; do.
27	„ „ 6 ...	21 15·2	...	...	Do. 1 mm. = 0″·25; do.
28	„ „ 7 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
29	„ „ 9 ...	1 31·6	2 6·1	1·5	Sensibility to tilt 1 mm. = 0″·31.
30	„ „ 16 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
31	„ October 5 ...	...	...	...	Do. do.
32	„ „ 7 ...	16 9·7	...	...	Sensibility to tilt 1 mm. = 0″·21; maximum phase not well defined.
33	„ „ 18 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
34	„ „ 20 ...	5 15·8	...	...	Sensibility to tilt 1 mm. = 0″·21; maximum phase not well defined.
35	„ November 9 ...	...	...	...	Lost in shifting time.
36	„ „ 14 ...	7 50·0	...	...	Sensibility to tilt 1 mm. = 0″·16; maximum phase not well defined.
37	„ „ 15 ...	14 47·9	...	...	Do. 1 mm. = 0″·17; do.
38	„ „ 26 ...	4 57·9	...	...	Do. 1 mm. = 0″·20; do.
39	„ „ 29 ...	2 41·8	...	...	Do. 1 mm. = 0″·19; do.
40	„ December 1 ...	15 59·8	16 15·7	1·5	Do. 1 mm. = 0″·20.
41	„ „ 10 ...	9 50·4	10 20·9	1·6	Do. 1 mm. = 0″·22.
42	„ „ 13 ...	11 46·2	12 3·4	9·9	Do. 1 mm. = 0″·18.
43	„ „ 16 ...	14 54·0	15 15 5	6·1	Do. 1 mm. = 0″·21.
44	„ „ „ ...	19 9·1	...	...	Do. 1 mm. = 0″·21; maximum phase not well defined.
45	„ „ 18 ...	3 1·6	...	...	Do. 1 mm. = 0″·25; do.
46	„ „ 23 ...	1 0·9	...	...	Do. 1 mm. = 0″·20; do.
47	„ „ 29 ...	13 23·2	...	...	Do. 1 mm. = 0″·20; do.
48	„ „ 30 ...	0 56·5	...	...	Do. 1 mm. = 0″·20; do.

TABLE IIb.—*List of principal Disturbances registered by Colaba (N—S) Seismograph at Bombay (1906 to 1910).*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion	Remarks.
		H. m.	H. m.	mm.	
1	1906 January 21 ...	13 59·2	14 6·9	0·4	Sensibility to tilt 1 mm.=0″·31.
2	„ „ 27 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
3	„ „ 31 ...	15 56·6	17 4·9	6·7	Sensibility to tilt 1 mm.=0″·27.
4	„ February. 19 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
5	„ „ 27 ...	19 46·8	19 49·3	6·1	Sensibility to tilt 1 mm.=0″·25.
6	„ March 2 ...	6 24·7	...	...	Do. 1 mm.=0″·31; maximum phase not well defined.
7	„ „ 16-17 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
8	„ „ 26 ...	1 48·2	...	...	Sensibility to tilt 1 mm.=0″·30; maximum phase not well defined.
9	„ April 11 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
10	„ „ „ ...	...	...	...	Do. do.
11	„ „ 13 ...	...	...	...	Do do.
12	„ „ 18 ...	13 42·5	14 27·9	3·9	Sensibility to tilt 1 mm.=0″·27.
13	„ „ 29 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
14	„ May 12 ...	5 53·7	5 59·6	1·0	Sensibility to tilt 1 mm=0″·31.
15	„ „ „ ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
16	„ June 1 ...	...	...	...	Do. do.
17	„ „ 24 ...	11 24·3	11 38·0	0·6	Sensibility to tilt 1 mm.=0″·31.
18	„ August 17 ...	0 34·2	0 57·6	9·5	Do. 1 mm.=0″·27.
19	„ „ 30 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
20	„ „ 31 ...	...	...	...	Do. do.
21	„ September 7 ...	...	...	...	Do. do.
22	„ „ 14 ...	...	...	...	Do. do.
23	„ October 2 ...	...	...	...	Do. do.
24	„ „ 17 ...	...	...	...	Do. do.
25	„ „ 24 ...	14 47·5	14 55·8	4·2	Sensibility to tilt 1 mm.=0″·42.
26	„ „ 31 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
27	„ November 19 ...	7 27·7	7 48·5	3·9	Sensibility to tilt 1 mm.=0″·42.
28	„ December 19 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
29	„ „ 22 ...	18 26·7	18 39·3	8·6	Sensibility to tilt 1 mm.=0″·50.
30	„ „ 23 ...	18 11·8	18 22·4	1·4	Do. 1 mm.=0″·38.

1907.

1	1907 January 2 ...	12 23·7	13 13·8	0·9	Sensibility to tilt 1 mm.=0″·38.
2	„ „ 4 ...	5 25·6	5 39·9	21·2	Do. 1 mm.=0″·38.
3	„ March 29 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
4	„ April 15 ...	...	7 40·3	2·5	Commencement lost in shifting time.
5	„ „ 18 ...	21 16·4	21 30·9	0·6	Sensibility to tilt 1 mm.=0″·42.
6	„ „ 19 ...	0 9·2	...	...	Do. 1 mm.=0″·42; maximum phase not well defined.
7	„ July 12 ...	17 22·2	17 23·2	0·5	Sensibility to tilt 1 mm.=0″·36.
8	„ September 2 ...	16 24·5	16 47·3	3·5	Do. 1 mm.=0″·42.
9	„ „ „ ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.

1907—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion.	Remarks.
		H. m.	H. m.	mm.	
10	1907 October 16 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
11	„ „ 21 ...	4 28·6	4 37·5	9·0	Sensibility to tilt 1 mm. = 0″·50.
12	„ „ 27 ...	5 23·8	5 29·2	0·6	Do. 1 mm. = 0″·50.
13	„ November 21 ...	20 13·2	20 19·6	1·3	Do. 1 mm. = 0″·50.
14	„ December 30 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.

1908.

1	1908 January	11	...	...	4	0·7	1·3	Sensibility to tilt 1 mm. = 0″·50; commencement lost in shifting time.
2	„ February	9	...	18 21·6	18	26·9	3·9	Sensibility to tilt 1 mm. = 0″·50.
3	„ March	5	...	...	...		...	Movements very small and hence difficult to locate the phases exactly.
4	„ „	13	...	6 30·9	...		...	Sensibility to tilt 1 mm. = 0″·50; maximum phase not well defined.
5	„ „	26	...	23 23·2	...		...	Do. 1 mm. = 0″·50; do.
6	„ „	27	...	...	...		...	Movements very small and hence difficult to locate phases exactly.
7	„ April	2	...	...	...		...	Do. do.
8	„ „	4	...	...	...		...	Do. do.
9	„ May	5	...	...	...		...	Lost in shifting time.
10	„ „	„	...	...	...		...	Movements very small and hence difficult to locate phases exactly.
11	„ „	15	...	...	...		...	Do. do.
12	„ June	3	...	16 0·4	...		...	Sensibility to tilt 1 mm. = 0″·50; maximum phase not well defined.
13	„ „	28	...	17 13·3	17	15·2	0·4	Do. 1 mm. = 0″·50.
14	„ August	17	...	...	...		...	Movements very small and hence difficult to locate phases exactly.
15	„ „	20	...	10 3·6	10	4·1	1·3	Sensibility to tilt 1 mm. = 0″·50.
16	„ October	23	...	20 18·1	...		...	Do. 1 mm. = 0″·50; maximum phase not well defined.
17	„ „	24	...	21 20·5	21	23·8	0·5	Do. 1 mm. = 0″·50.
18	„ November	2	...	5 24·6	...		...	Do. 1 mm. = 0″·50; maximum phase not will defined.
19	„ „	6	...	7 28·9	...		...	Do. 1 mm. = 0″·50; do.
20	„ „	11	...	...	...		...	Movements very small and hence difficult to locate phases exactly.
21	„ December	12	...	13 0·6	13	11·2	3·2	Sensibility to tilt 1 mm. = 0″·50.
22	„ „	18	...	15 41·5	...		...	Do. 1 mm. = 0″·50; maximum phase not well defined.
23	„ „	28	...	4 29·4	4	41·6	0·5	Do. 1 mm. = 0″·50.

1909.

1	1909 January	23	...	2 58·9	...		...	Sensibility to tilt 1 mm. = 0″·50; maximum phase not well defined.
2	„ February	9	...	...	...		...	Movements very small and hence difficult to locate the phases exactly.
3	„ „	16	...	...	...		...	Do. do.
4	„ March	12-13	...	...	...		...	Do. do.

1909—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion.	Remarks.
		H. m.	H. m.	mm.	
5	1909 March 13 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
6	„ „ 17-18 ...	...	...	...	Do. do.
7	„ April 10 ...	...	...	...	Do. do.
8	„ „ „ ...	...	...	...	Do. do.
9	„ „ 27 ...	...	...	...	Do. do.
10	„ May 17 ...	...	...	...	Do. do.
11	„ June 3 ...	18 49·1	19 0·2	7·5	Sensibility to tilt 1 mm. = o″·31.
12	„ „ 8 ...	...	...	...	Disturbance lost in shifting time.
13	„ „ 12 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
14	„ July 7 ...	21 41·6	21 45·2	3·9	Sensibility to tilt 1 mm. = o″·33.
15	„ „ 26 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
16	„ „ 30 ...	...	...	...	Do. do.
17	„ „ 31 ...	...	...	...	Do. do.
18	„ August 14 ...	...	...	...	Lost in shifting time.
19	„ October 20 ...	23 45·5	...	...	Sensibility to tilt 1 mm. = o″·13; maximum phase not well defined.
20	„ November 10 ...	6 22·6	...	...	Do. 1 mm. = o″·13; do.
21	„ „ 21 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
22	„ December 9 ...	...	...	...	Beginning is uncertain.
23	„ „ „ ...	...	...	...	Do.
24	„ „ „ ...	23 47·5	...	...	Sensibility to tilt 1 mm. = o″·17; maximum phase not well defined.

1910.

1	1910 January 1 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
2	„ February 4 ...	...	...	...	Do. do.
3	„ „ 12 ...	18 26·6	...	...	Sensibility to tilt 1 mm. = o″·12; maximum phase not well defined.
4	„ March 25 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
5	„ „ 30 ...	17 20·7	...	...	Sensibility to tilt 1 mm. = o″·17; maximum phase not well defined.
6	„ „ 31 ...	19 5·1	...	...	Do. 1 mm. = o″·14; do.
7	„ April 12 ...	0 30·1	0 47·0	4·5	Do. 1 mm. = o″·16.
8	„ „ 16 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
9	„ „ 17 ...	...	...	...	Do. do.
10	„ May 1 ...	...	...	...	Do. do.
11	„ „ 22 ...	6 44·6	...	...	Sensibility to tilt 1 mm. = o″·19; maximum phase not well defined.
12	„ June 1 ...	...	...	...	Lost in shifting time.
13	„ „ 16 ...	6 49·1	...	...	Sensibility to tilt 1 mm. = o″·17; maximum phase not well defined.
14	„ „ 25 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
15	„ „ 29 ...	...	...	...	Do. do.
16	„ July 7 ...	8 32·1	...	...	Sensibility to tilt 1 mm. = o″·17; maximum phase not well defined.
17	„ „ 29 ...	10 47·9	...	...	Do. 1 mm. = o″·17; do.
18	„ August 17 ...	12 3·3	12 7·1	1·3	Do. 1 mm. = o″·17.

1910—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T.		Amplitude of half the complete range of maximum motion.	Remarks.
		Beginning.	Maximum.		
		H. m.	H. m.	mm.	
19	1910 August 21 ...	...	...	...	Commencement lost in shifting time.
20	„ September 1 ...	0 59·8	...	...	Sensibility to tilt 1 mm. = 0″·18; maximum phase not well defined.
21	„ „ „ ...	14 39·9	...	...	Do. 1 mm. = 0″·18; do.
22	„ „ 6 ...	..	...	...	Movements very small and hence difficult to locate phases exactly.
23	„ „ 7 ...	...	...	...	Do. do.
24	„ „ 9 ...	1 30·1	2 3·1	2·5	Sensibility to tilt 1 mm. = 0″·16.
25	„ „ 16 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.
26	„ October 5 ...	...	...	...	Do. do.
27	„ „ 18 ...	...	...	...	Do. do.
28	„ „ 20 ...	5 16·5	...	...	Sensibility to tilt 1 mm. = 0″·16; maximum phase not well defined.
29	„ November 9 ...	...	...	...	Lost in shifting time.
30	„ „ 14 ...	7 49·9	...	...	Sensibility to tilt 1 mm. = 0″·14; maximum phase not well defined.
31	„ „ 15 ...	14 47·9	15 14·7	1·1	Do. 1 mm. = 0″·16.
32	„ „ 26 ...	...	...	...	Owing to shifting of zero the lines are intermingled and it is therefore difficult to determine the phases exactly.
33	„ „ 29 ...	2 44·6	...	...	Sensibility to tilt 1 mm. = 0″·15; maximum phase not well defined.
34	„ December 1 ...	15 59·8	16 12·1	3·4	Do. 1 mm. = 0″·16.
35	„ „ 10 ...	9 50·7	...	...	Do. 1 mm. = 0″·14 do.
36	„ „ 13 ...	11 46·1	12 2·9	3·6	Do. 1 mm. = 0″·16.
37	„ „ 16 ...	14 54·6	15 13·7	11·1	Do. 1 mm. = 0″·16.
38	„ „ „ ...	19 8·8	...	...	Do. 1 mm. = 0″·16; maximum phase not well defined.
39	„ „ 18 ...	3 1·8	...	...	Do. 1 mm. = 0″·14 do.
40	„ „ 23 ...	1 0·7	...	...	Do. 1 mm. = 0″·16 do.
41	„ „ 29 ...	13 23·0	...	...	Do. 1 mm. = 0″·14 do.
42	„ „ 30 ...	...	...	...	Movements very small and hence difficult to locate phases exactly.

TABLE III.—*List of principal Disturbances registered by Omori-Ewing Seismograph.*

1908.

Observatory number.	Date.			Time of Disturbance in G. M. T. Beginning. H.	m.	Maximum. H.	m.	Amplitude of half the complete range of maximum motion. mm.	Remarks.
1	1908 January	11	...	3	42·9	4	3·5	5·5	
2	,, February	9	...	18	17·0	18	26·9	13·7	
3	,, March	5	...	2	25·8	2	52·0	1·6	
4	,, ,,	13	...	6	31·8	...		...	Maximum phase not well marked.
5	,, ,,	23	...	12	32·9	...		...	Maximum uncertain.
6	,, ,,	26	...	23	23·3	0	30·5	5·5	
7	,, April	4	...	6	23·6	6	26·8	1·0	
8	,, ,,	10	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
9	,, ,,	16	...	17	42·9	17	46·1	1·0	
10	,, ,,	19	...	8	11·2	...		...	Maximum phase not well defined.
11	,, May	5	...	...		...		...	Partly lost in shifting time.
12	,, ,,	,,	...	11	25·1	11	28·6	1·7	
13	,, ,,	15	...	9	18·7	9	33·7	3·3	
14	,, ,,	20	...	...		...		...	Partly lost in shifting time.
15	,, June	3	...	15	59·5	16	8·5	2·6	
16	,, ,,	28	...	17	11·6	17	13·7	1·0	
17	,, July	13	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
18	,, August	17	...	...		...		...	Owing to the failure of minute marks exact times cannot be determined.
19	,, ,,	20	...	9	58·1	10	4·2	22·6	
20	,, ,,	22	...	12	12·6	12	14·5	0·5	
21	,, September	9	...	...		...		...	Partly lost in shifting time.
22	,, ,,	23	...	7	13·4	...		...	Maximum phase not well marked.
23	,, ,,	26	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
24	,, ,,	28	...	...		...		...	Do. do.
25	,, October	13	...	...		...		...	Do. do.
26	,, ,,	20	...	...		...		...	Do. do.
27	,, ,,	23	...	20	18·0	20	23·3	1·0	
28	,, ,,	24	...	21	20·5	21	23·8	3·5	
29	,, November	2	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
30	,, ,,	6	...	7	29·0	7	48·1	2·0	
31	,, ,,	11	...	13	28·2	...		...	Maximum phase not well marked.
32	,, ,,	23	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
33	,, December	12	...	13	0·3	13	12·4	17·9	
34	,, ,,	,,	...	19	9·3	...		...	Maximum phase not well defined.
35	,, ,,	18	...	15	41·5	15	47·5	4·1	
36	,, ,,	28	...	4	29·7	4	41·8	2·9	

1909.

1	1909 January	22	...	12	43·7	...		...	Maximum phase not well marked.
2	,, ,,	23	...	2	53·8	...		...	Do. do.
3	,, February	9	...	11	36·2	...		...	Do. do.
4	,, ,,	15	...	...		...		...	Movements very small and hence difficult to locate the phases exactly.
5	,, ,,	16	...	8	9·8	...		...	Maximum phase not well marked.
6	,, ,,	22	...	9	45·4	...		...	Do. do.
7	,, March	12-13	...	...		...		...	Owing to the failure of minute marks exact times cannot be determined.

1909—*continued.*

Observatory number	Date.		Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion.	Remarks.
			H. m.	H. m.	mm.	
8	1909 March	13 ...	14 39·5	15 12·9	2·0	
9	„ „	17-18 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
10	„ April	10 ...	18 55·9	19 28·7	0·9	
11	„ „	10 ...	20 1·8	20 22·7	13·8	
12	„ „	11 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
13	„ „	12 ...	...	...	...	Do. do.
14	„ „	14 ...	...	...	...	Do. do.
15	„ „	25 ...	...	...	...	Do. do.
16	„ „	27 ...	...	...	...	Do. do.
17	„ „	29 ...	22 59·1	...	...	Maximum phase not well defined.
18	„ May	17 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
19	„ „	17 ...	...	...	...	Do. do.
20	„ June	3 ...	18 47·4	...	...	Maximum phase not well defined.
21	„ „	8 ...	...	...		Partly lost in shifting time.
22	„ „	9 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
23	„ „	12 ...	...	...	...	Do. do.
24	„ July	7 ...	21 41·9	1st 21 45·3	41·4	
				2nd 21 49·8	43·6	
25	„ „	26 ...	10 58·9	11 4·3	1·5	
26	„ „	30 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
27	„ August	2 ...	10 26·4	...	...	Maximum phase not well defined.
28	„ „	14 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
29	„ „	16 ...	...	...	...	Do. do.
30	„ „	22 ...	...	...	...	Do. do.
31	„ September	7 ...	15 51·7	...	...	Maximum uncertain.
32	„ „	8 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
33	„ October	20 ...	23 43·3	23 47·6	44·3	
34	„ November	10 ...	6 22·2	...	...	Maximum uncertain.
35	„ „	21 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
36	„ December	9 ...	...	...	...	Do. do.
37	„ „	„ ...	...	...	...	Do. do.
38	„ „	„ ...	...	...		Do. do.

1910.

1	1910 January	1 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
2	„ „	22 ...	9 15·8	...	...	Maximum phase not well marked.
3	„ February	4 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
4	„ „	12 ...	...	...	...	Do. do.
5	„ March	30 ...	...	...	...	Do. do.
6	„ „	31 ...	...	...	...	Do. do.
7	„ April	12 ...	0 31·2	0 46·5	2·9	
8	„ „	16 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
9	„ „	17 ...	...	...	...	Do. do.

1910—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion.	Remarks.
		H m.	H. m.	mm.	
10	1910 May 1 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
11	„ „ 13 ...	...	...	...	Do. do.
12	„ „ 18 ...	...	...	...	Do. do.
13	„ „ 22 ...	6 45·1	...	...	Maximum uncertain.
14	„ June 1 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
15	„ „ 16 ...	6 44·6	7 2·7	5·5	
16	„ „ 25 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
17	„ „ 29 ...	...	...	...	Do. do.
18	„ July 7 ...	8 24·9	...	...	Maximum uncertain.
19	„ „ 21 ...	22 15·9	...	...	Do.
20	„ „ 29 ...	10 47·0	...	...	Do.
21	„ August 13 ...	8 2·3	...	...	Do.
22	„ „ „ ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
23	„ „ 17 ...	12 3·8	12 8·9	18·2	
24	„ „ 21 ...	5 57·2	...	...	Maximum uncertain.
25	„ September 1 ...	0 56·6	1 20·5	2·5	
26	„ „ „ ..	14 41·0	...	...	Maximum uncertain.
27	„ „ 6 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
28	„ „ 7 ...	...	...	...	Do. do.
29	„ „ 9 ...	1 28·2	2 8·0	1·5	
30	„ „ 16 ...	...	...	...	Do. do.
31	„ October 20 ...	5 16·2	5 26·7	1·2	
32	„ November 9 ...	6 14·0	7 9·2	15·2	
33	„ „ 14 ...	7 52·0	8 3·8	0·1	
34	„ „ 15 ...	14 47·8	15 21·0	0·7	
35	„ „ 26 ...	4 58·0	...	...	Maximum uncertain.
36	„ „ 29 ...	2 48·0	...	...	Do.
37	„ December 1 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
38	„ „ 10 ...	9 50·7	...	...	Maximum uncertain.
39	„ „ 13 ...	11 46·8	12 6·7	33·1	
40	„ „ 16 ...	14 53·8	15 21·4	25·0	
41	„ „ „ ...	19 1·7	...	...	Maximum uncertain.
42	„ „ 18 ...	3 1·3	...	...	Do.
43	„ „ 23 ...	1 1·2	...	...	Do.
44	„ „ 29 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
45	„ „ 30 ...	0 56·3	...	...	Maximum uncertain.

TABLE IV.—*List of principal Disturbances registered by the Colaba Vertical Movement (Tilt) Seismograph.*

1906.

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion.	Remarks.
		H. m.	H. m.	mm.	
1	1906 January 31 ...	16 52·9	17 14·4	...	Whenever the maximum is not entered, it should be inferred that the trace is either too faint and the maximum uncertain, or owing to rapidity of movement no impression is left on the photographic film indicating the true maximum.
2	„ February 27 ...	19 46·7	...	...	
3	„ March 26 ...	1 48·5	...	...	
4	„ August 17 ...	0 53·4	...	...	
5	„ October 24 ...	14 51·2	...	...	
6	„ December 22 ...	18 26·8	...	...	

1907.

1	1907 January 4 ...	...	...	...	Commencement doubtful.
2	„ April 18 ...	21 14·5	21 16·1	1·2	
3	„ „ „ ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
4	„ May 4 ...	8 46·3	...	...	
5	„ July 9 ...	19 10·2	19 10·5	1·3	
6	„ „ 12 ...	17 21·3	17 24·4	3·0	
7	„ „ 20 ...	13 47·8	...	...	
8	„ September 2 ...	16 29·0	...	...	Commencement doubtful as the hourly breaks have failed.
9	„ „ „ ...	18 6·7	...	...	Commencement doubtful.
10	„ October 4 ...	10 35·2	...	...	
11	„ „ 11 ...	14 41·7	...	...	
12	„ „ 21 ...	4 28·2	...	...	
13	„ „ 27 ...	5 20·5	...	...	
14	„ November 17 ...	...	...	...	Movements very small and hence difficult to locate the phases exactly.
15	„ „ 21 ...	20 8·8	...	...	

1908.

1	1908 January 11 ...	3 43·4	3 44·1	2·1	
2	„ „ 12 ...	10 25·9	10 27·4 ?	Curve faint.	
3	„ February 9 ...	18 17·9	...	...	As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.
4	„ March 5 ...	2 26·6	2 35·4	3·0	
5	„ „ 13 ...	6 26·5	...	...	Maximum uncertain.
6	„ „ 21 ...	4 2·1	4 2·5	1·0	Commencement doubtful.
7	„ „ 23 ...	12 33·7	12 38·7	2·0	
8	„ „ 26 ...	23 23·1	23 28·1	2·0	
9	„ „ 27 ...	4 7·4	4 12·3	1·0	Commencement doubtful.
10	„ April 2 ...	6 1·8	6 2·0	1·0	
11	„ „ 4 ...	6 20·1	...	...	As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.
12	„ „ 16 ...	17 43·0	17 46·3	6·0	
13	„ „ 19 ...	8 7·7	8 14·3	3·0	
14	„ „ 22 ...	23 55·9	23 56·7	4·4	

1908—*continued.*

Observatory number.	Date.		Time of Disturbance in G. M. T. Beginning.		Time of Disturbance in G. M. T. Maximum.		Amplitude of half the complete range of maximum motion.	Remarks.
			H.	m.	H.	m.	mm.	
15	1908 May	5 ...	6	26·7	6	29·7	3·4	
16	„ „	„ ...	11	20·2	11	21·7	1·7	
17	„ „	20 ...	7	50·1	7	57·2	2·1	
18	„ June	3 ...	16	0	16	11·0	12·0	
19	„ „	28 ...	17	11·5	17	14·1	9·0	Commencement doubtful as it is mixed up in tremors.
20	„ August	20 ...	9	58·1	10	1·1	12·5	
21	„ „	22 ...	12	11·0	12	13·9	4·5	Commencement doubtful as it is mixed up in tremors.
22	„ September	9 ...	6	48·3	6	50·9	5·5	
23	„ „	20 ...	5	54·5	6	0·7	5·8	Not recorded in any other seismographs.
24	„ „	23 ...	7	9·6	7	15·0	4·7	
25	„ October	20 ...	2	52·0	2	52·5	1·5	Commencement doubtful.
26	„ „	23 ...	20	18·2	20	25·7	12·5	
27	„ „	24 ...	21	20·6	21	29·6	>11·0	
28	„ November	2 ...	5	17·7	5	28·5	7·0	
29	„ „	„ ..	7	25·5	7	30·1	3·4	
30	„ „	6 ...	7	20·5	7	31·3	1·5	Commencement doubtful.
31	„ „	„ ...	13	57·3	14	8·3	1·4	Do.
32	„ „	11 ...	13	27·5	13	29·8	7·0	
33	„ „	12 ...	16	46·6	16	49·6	1·8	Commencement doubtful.
34	„ „	„ ...	22	1·8	22	9·3	2·1	
35	„ „	23 ...	12	51·9	12	52·0	1·5	
36	„ December	12 ...	13	0·2	...		...	As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.
37	„ „	„ ...	19	1·5	19	2·0	2·7	
38	„ „	18 ...	15	41·3	15	43·2	>9·0	
39	„ „	28 ...	4	29·8	4	32·3	3·2	

1909.

1	1909 January	22 ...	12	40·2	12	44·0	2·2	Commencement doubtful as it occurs during hourly break.
2	„ „	23 ...	2	54·1	2	56·1	>5·0	
3	„ February	9 ...	...		...		...	Record doubtful.
4	„ „	15 ...	0	51·6	1	1·6	2·0	
5	„ „	16 ...	8	4·7	8	9·9	3·0	
6	„ „	22 ...	9	41·0	9	45·6	4·7	
7	„ March	12 ...	23	28·6	23	37·4	2·4	
8	„ „	13 ...	14	39·6	14	48·1	4·5	
9	„ „	17 ...	23	2·9	23	10·4	2·5	
10	„ „	29 ...	9	3·8	9	8·9	4·5	
11	„ April	9 ...	7	3·5	7	4·9	5·0	
12	„ „	10 ...	19	56·9	20	22·6	1·2	
13	„ „	14 ...	20	2·1	20	3·1	4·0	
14	„ „	27 ...	12	54·5	12	57·9	2·2	
15	„ „	29 ...	22	51·0	22	51·5	2·0	
16	„ May	15 ...	14	20·6	14	22·6	1·9	Not recorded in any other seismographs.
17	„ „	17 ...	8	22·3	8	31·3	2·2	
18	„ „	20 ...	13	48·1	13	49·5	4·0	Not recorded in any other seismographs.
19	„ „	„ ...	21	41·6	21	46·1	1·4	Do. do.
20	„ „	30 ...	21	12·3	21	21·1	1·9	
21	„ June	3 ...	18	47·3	...		...	As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.

1909—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T. Beginning.	Time of Disturbance in G. M. T. Maximum.	Amplitude of half the complete range of maximum motion.	Remarks.
		H. m.	H. m.	mm.	
22	1909 July 7 ...	21 42·0	...	...	Commencement doubtful as it occurs at the time of hourly break. As the photoghaphic trace is very faint owing to rapid movements, maximum cannot be determined.
23	,, ,, 26 ...	10 57·0	10 59·5	3·0	
24	,, ,, 30 ...	...	11 30·3	2·7	Commencement mixed up in tremors.
25	,, August 2 ...	10 26·4	...	...	Commencement doubtful as it is mixed up in tremors. As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.
26	,, ,, 14 ...	6 44·1	6 49·3	1·9	
27	,, ,, 22 ...	15 44·6	15 47·1	4·0	
28	,, ,, 24 ...	12 2·4	12 10·1	4·5	Not recorded in any other seismographs.
29	,, September 7 ...	15 37·0	...	...	Commencement doubtful as it is mixed up in tremors. As the photographic trace in very faint owing to rapid movements, maximum can not be determined.
30	,, ,, 8 ...	17 2·7	17 13·9	5·0	
31	,, ,, 16 ...	18 56·5	19 3·2	6·5	
32	,, ,, 28 ...	23 52·5	23 54·7	1·5	Not recorded in any other seismographs.
33	,, October 17 ...	22 26·3	22 32·3	4·0	Not recorded in any other seismographs. Commencement doubtful due to tremors.
34	,, ,, 20 ...	23 44·1	...	...	As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.
35	,, ,, 30 ...	10 27·4	10 29·9	1·7	
36	,, November 10 ...	6 23·5	...	...	As the photographic trace is veryfaint owing to rapid movements, maximum cannot be determined.
37	,, December 9 ...	15 47·3	15 52·3	1.7	Commencement doubtful due to tremors.
38	,, ,, ,, ...	21 56·4	21 57·1	2·5	
39	,, ,, ,, ...	23 40·3	23 40·8	3·5	

1910.

1	1910 January 1 ...	11 24·5	...	...	Maximum uncertain.
2	,, ,, 13 ...	8 45·4	8 49·5	3·2	Not recorded in any other seismographs.
3	,, ,, 22 ...	9 1·5	...	...	Maximum uncertain.
4	,, March 2 ...	14 52·9	15 0·7	1·7	Not recorded in any other seismographs.
5	,, ,, 5 ...	10 2·0	10 2·5	2 8	Do. do.
6	,, April 12 ...	0 29·4	...	...	As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.
7	,, May 11 ...	15 55·1	...	...	As the photographic trace is very faint owing to rapid movements, maximum cannot be determined. Not recorded in any other seismographs.
8	,, June 16 ...	6 47·3	6 49·9	3·5	
9	,, ,, 19 ...	...	16 11·7	1·7	Commencement mixed up in tremors. Not recorded in any other seismographs.
10	,, July 12 ...	7 39·8	...	...	Commencement doubtful. As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.
11	,, ,, 21 ...	22 14·8	...	...	Maximum uncertain.
12	,, August 13 ...	21 23·7	...	...	As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.
13	,, ,, 17 ...	12 4·1	...	...	Do. do.

1910—*continued.*

Observatory number.	Date.	Time of Disturbance in G. M. T.		Amplitude of half the complete range of maximum motion.	Remarks.
		Beginning.	Maximum.		
		H. m.	H. m.	mm.	
14	1910 August 21 ...	5 56·9	6 3·9	3·0	
15	,, ,, 27 ...	7 7·8	7 9·8	5·0	Not recorded in any other seismographs.
16	,, September 1 ...	0 53·0	...	...	Maximum uncertain.
17	,, ,, 9 ...	1 26·3	...	...	Do.
18	,, ,, 16 ...	23 23·5	23 24·1	3·5	
19	,, October 7 ...	16 10·2	...	...	Maximum uncertain.
20	,, November 9 ...	6 16·4	6 20·6	3·5	
21	,, ,, 14 ...	7 43·0	7 44·0	1·3	
22	,, ,, 15 ...	14 40·8	14 41·3	>4·0	
23	,, ,, 24 ...	15 44·1	15 44·5	1·5	
24	,, ,, 26 ...	4 54·9	5 5·7	2·0	
25	,, December 1 ...	15 59·9	...	...	Maximum uncertain.
26	,, ,, 10 ...	9 40·2	...	...	Do.
27	,, ,, 13 ...	11 46·4	...	...	As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.
28	,, ,, 16 ...	14 54·5	14 58·0	9·0	
29	,, ,, ,, ...	19 1·6	19 2·0	2·2	
30	,, ,, 18 ...	2 54·6	...	...	Commencement doubtful. Maximum uncertain.
31	,, ,, 29 ...	13 16·0	13 16·5	2·0	
32	,, ,, 30 ...	0 56·8	...	...	As the photographic trace is very faint owing to rapid movements, maximum cannot be determined.

TABLES OF RESULTS

DERIVED FROM

ABSOLUTE MAGNETIC OBSERVATIONS

AND FROM

THE CONTINUOUS REGISTRATIONS OF THE MAGNETOGRAPHS

AT

ALIBAG.

1906—1910.

B 821

Absolute Magnetical Observations, Alibag—Table Ia.

Observations of Vibration and Deflection, taken with Magnetometer No. 7 (T. Cooke and Sons) for the determination of Absolute Horizontal Force.

1906.

1906. Date	Civil Time, Mean.	Vibration Magnet. Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Angle of Deflection of Magnet marked 7. Distance. 22·5 cms.	30·0 cms.	Corresponding Mean Reading of H. F. Magnetograph. Temperature.	Scale Reading.	Thermometer.	Observer.	Values of m.	Calculated Results in C. G. S. Unit. Values of H. From Deflection at distance. 22·5 cms. ($H_{22·5}$).	30·0 cms. ($H_{30·0}$).	Difference. $H_{22·5} - H_{30·0}$	Mean. $\frac{H_{22·5} + H_{30·0}}{2}$	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9		10	11	12	13	14	15	16	17	18	19	20
	h. m.	s.	sc. div.	°	s.	m. m.	°	° ′ ″		° ′ ″	°	m. m.	°							
JAN. 3	13 13	2·7027	1·42	23·5	−3·7	104·8	83·2	26 42 55		10 51 54	23·7	105·7	83·2	G. S. J.	939·53	0·36879	0·36877	+·00002	0·36878	
,, ,,	15 2	2·7028	1·42	24·1	,,	104·7	83·3	26 42 31		10 51 41	24·0	105·8	83·3	G. S. J.	939·57	·36885	·36886	−·00001	·36885	
,, 10	12 19	2·7025	1·40	24·0	−3·6	107·1	82·5	26 42 5		10 51 35	24·2	105·9	82·4	G. S. J.	939·62	·36890	·36889	+·00001	·36889	
,, ,,	15 5	2·7036	1·41	24·9	,,	102·2	82·4	26 42 35		10 51 42	24·5	102·7	82·4	G. S. J.	939·62	·36876	·36877	−·00001	·36876	
,, 17	12 25	2·7031	1·40	25·9	−3·4	108·2	82·0	26 39 47		10 50 33	26·1	107·4	82·0	G. S. J.	939·57	·36906	·36910	−·00004	·36908	
,, ,,	15 3	2·7045	1·42	27·0	,,	103·8	82·0	26 39 46		10 50 36	26·6	106·0	82·0	G. S. J.	939·42	·36892	·36894	−·00002	·36893	·368910
,, 24	12 14	2·7023	1·41	25·2	−3·5	109·0	82·8	26 40 1		10 50 40	25·3	107·9	82·8	G. S. J.	939·59	·36916	·36918	−·00002	·36917	
,, ,,	15 1	2·7037	1·40	25·9	,,	102·0	82·7	26 40 45		10 51 0	25·7	103·4	82·8	G. S. J.	939·57	·36891	·36892	−·00001	·36891	
,, 31	12 20	2·7037	1·42	26·0	−3·8	103·4	82·2	26 39 48		10 50 38	26·2	104·0	82·2	G. S. J.	939·42	·36898	·36899	−·00001	·36898	
,, ,,	15 2	2·7044	1·39	26·0	,,	99·4	82·2	26 40 27		10 50 56	26·3	102·0	82·2	G. S. J.	939·42	·36881	·36881	·00000	·36881	
FEB. 7	12 3	2·7020	1·41	24·0	−3·6	103·0	81·9	26 41 42		10 51 26	24·2	102·4	81·9	G. S. J.	939·66	·36901	·36900	+·00001	·36900	
,, 14	15 2	2·7041	1·41	25·0	,,	97·0	81·9	26 42 10		10 51 36	24·7	99·3	81·9	G. S. J.	939·40	·36871	·36871	·00000	·36871	
,, 14	12 29	2·7012	1·40	23·5	−3·6	107·1	81·4	26 41 11		10 51 12	23·9	105·5	81·4	G. S. J.	939·62	·36916	·36916	·00000	·36916	
,, ,,	15 3	2·7030	1·40	24·5	,,	99·8	81·3	26 41 55		10 51 31	24·1	101·4	81·3	G. S. J.	939·44	·36891	·36889	+·00002	·36890	
,, 21	12 13	2·7031	1·41	24·9	−3·6	97·6	81·4	26 41 50		10 51 31	24·9	97·4	81·4	G. S. J.	939·70	·36887	·36885	+·00002	·36886	·368825
,, ,,	15 0	2·7040	1·41	25·2	,,	95·3	81·4	26 42 14		10 51 40	25·2	95·2	81·4	G. S. J.	939·62	·36870	·36867	+·00003	·36868	
,, 28	12 31	2·7045	1·41	26·6	−3·9	97·8	81·4	26 40 59		10 51 10	26·3	94·3	81·4	G. S. J.	939·66	·36878	·36877	+·00001	·36877	
,, ,,	15 2	2·7056	1·41	26·8	,,	88·2	81·4	26 42 11		10 51 32	26·4	89·2	81·4	G. S. J.	939·66	·36852	·36853	−·00001	·36852	
MAR. 7	12 21	2·7050	1·40	26·9	−3·1	94·1	82·1	26 40 40		10 51 2	26·5	93·5	82·1	G. S. J.	939·51	·36876	·36875	+·00001	·36875	
,, 15	3	2·7059	1·42	27·5	,,	88·3	82·1	26 40 55		10 51 5	27·3	89·0	82·1	G. S. J.	939·55	·36859	·36859	·00000	·36859	
,, 14	12 23	2·7032	1·41	25·6	−3·5	96·2	82·8	26 41 0		10 51 5	25·5	95·6	82·8	G. S. J.	930·68	·36894	·36895	−·00001	·36894	
,, ,,	15 9	2·7039	1·41	25·9	,,	90·8	82·8	26 41 42		10 51 30	25·8	90·2	82·8	G. S. J.	939·81	·36878	·36875	+·00003	·36876	·368920
,, 21	12 27	2·7030	1·40	26·2	−3·5	99·1	83·0	26 39 3		10 50 22	26·4	98·5	83·0	G. S. J.	939·57	·36915	·36916	−·00001	·36915	
,, ,,	15 4	2·7043	1·41	26·8	,,	94·2	83·0	26 39 16		10 50 31	26·7	96·6	83·0	G. S. J.	939·42	·36898	·36897	+·00001	·36897	
,, 28	12 18	2·7039	1·41	28·2	−3·4	100·3	83·8	26 36 30		10 49 25	28·6	99·5	83·8	G. S. J.	939·53	·36928	·36928	·00000	·36928	
,, ,,	15 1	2·7059	1·41	28·9	,,	90·4	83·9	26 37 35		10 49 51	28·9	93·6	83·9	G. S. J.	939·36	·36893	·36892	+·00001	·36892	

1906. Date.		Vibration Magnet. Civil Time, Mean.	Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Angle of Deflection of Magnet marked 7. Distance. 22·5 cms.	30·0 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Observer.	Calculated results in C. G. S. Unit. Values of m.	Values of H. From Deflection at distance. 22·5 cms ($H_{22·5}$).	30·0 cms. ($H_{30·0}$).	Difference. $H_{22·5} - H_{30·0}$.	Mean. $\frac{H_{22·5}+H_{30·0}}{2}$	Observed monthly mean Values of H.
1		2	3	4	5	6	7	8	9		10	11	12	13	14	15	16	17	18	19	20
		H. m.	S.	Sc. div.	°	S.	mm.	°	° ′ ″		° ′ ″	°	mm.	°							
April	5	12 22	2·7040	1·42	28·4	−3·2	96·3	84·8	26 37 5		10 49 32	28·4	94·9	84·8	G. S. J.	939·59	0·36923	0·36926	−·00003	0·36924	
,,	,,	15 7	2·7060	1·41	28·8	,,	87·4	84·8	26 37 57		10 49 58	28·7	89·9	84·8	G. S. J.	939·33	·36887	·36887	·00000	·36887	
,,	11	12 26	2·7060	1·40	28·4	−3·6	85·4	85·5	26 38 56		10 50 22	28·3	85·0	85·5	G. S. J.	939·42	·36877	·36877	·00000	·36877	
,,	,,	15 3	2·7068	1·43	28·9	,,	81·5	85·5	26 39 0		10 50 21	28·8	83·0	85·5	G. S. J.	939·38	·36865	·36865	·00000	·36865	0·368942
,,	18	12 25	2·7040	1·41	29·1	−3·2	95·0	86·2	26 36 5		10 49 10	29·0	92·4	86·2	G. S. J.	939·62	·36934	·36937	−·00003	·36935	
,,	,,	15 4	2·7058	1·41	29·0	,,	85·0	86·2	26 37 6		10 49 41	29·2	86·9	86·2	G. S. J.	939·33	·36896	·36895	+·00001	·36895	
,,	25	12 18	2·7062	1·42	29·9	−3·7	84·4	87·2	26 36 45		10 49 27	29·8	84·0	87·2	G. S. J.	939·42	·36897	·36899	−·00002	·36898	
,,	,,	15 7	2·7068	1·42	29·7	,,	77·3	87·2	26 37 55		10 49 57	29·9	78·5	87·2	G. S. J.	939·53	·36874	·36873	+·00001	·36873	
May	2	12 11	2·7054	1·41	29·9	−3·3	86·8	88·2	26 36 10		10 49 18	29·6	85·6	88·2	G. S. J.	939·53	·36916	·36916	·00000	·36916	
,,	,,	15 2	2·7063	1·42	29·6	,,	79·9	88·2	26 37 1		10 49 37	29·8	81·5	88·2	G. S. J.	939·42	·36890	·36889	+·00001	·36889	
,,	9	12 25	2·7065	1·37	30·2	−3·6	81·5	89·1	26 36 25		10 49 15	30·1	79·8	89·1	G. S. J.	939·33	·36897	·36901	−·00004	·36899	
,,	,,	14 29	2·7065	1·37	30·5	,,	76·9	89·1	26 36 27		10 49 25	30·6	77·6	89·1	G. S. J.	939·57	·36894	·36894	·00000	·36894	
,,	16	12 18	2·7090	1·37	31·9	−3·7	66·9	90·1	26 37 9		10 49 40	31·4	67·3	90·1	G. S. J.	939·40	·36859	·36858	+·00001	·36858	0·368657
,,	,,	15 2	2·7088	1·35	31·3	,,	66·7	90·1	26 37 6		10 49 39	31·5	67·2	90·1	G. S. J.	939·33	·36855	·36854	+·00001	·36854	
,,	23	12 14	2·7078	1·37	31·6	−3·4	68·2	91·2	26 36 17		10 49 21	31·4	68·2	91·2	G. S. J.	939·53	·36881	·36880	+·00001	·36880	
,,	,,	15 4	2·7084	1·36	31·8	,,	65·6	91·2	26 36 7		10 49 10	31·8	67·4	91·2	G. S. J.	939·38	·36874	·36877	−·00003	·36875	
,,	30	12 15	2·7075	1·36	31·8	−3·6	73·9	91·7	26 34 32		10 48 38	31·3	73·2	91·7	G. S. J.	939·16	·36907	·36907	·00000	·36907	
,,	,,	15 3	2·7080	1·33	31·6	,,	67·5	91·7	26 35 20		10 48 56	31·8	68·2	91·7	G. S. J.	939·27	·36885	·36887	−·00002	·36886	
June	6	12 24	2·7068	1·38	30·8	−3·5	66·0	92·6	26 36 21		10 49 17	30·8	64·6	92·6	G. S. J.	939·53	·36892	·36894	−·00002	·36893	
,,	,,	15 1	2·7078	1·35	31·0	,,	61·8	92·6	26 36 29		10 49 25	31·1	63·1	92·6	G. S. J.	939·38	·36877	·36876	+·00001	·36876	
,,	18	12 22	2·7047	1·36	28·6	−3·9	71·8	92·5	26 35 46		10 49 5	29·1	71·8	92·5	G. S. J.	939·23	·36923	·36925	−·00002	·36924	
,,	,,	15 3	2·7059	1·36	29·7	,,	63·1	92·5	26 36 32		10 49 30	29·3	66·6	92·5	G. S. J.	939·36	·36907	·36905	+·00002	·36906	
,,	20	12 37	2·7046	1·36	28·4	−4·5	69·0	91·3	26 37 10		10 49 37	28·2	69·1	91·3	G. S. J.	939·40	·36916	·36918	−·00002	·36917	0·369069
,,	,,	15 5	2·7056	1·37	29·2	,,	62·8	91·2	26 36 52		10 49 40	28·9	65·5	91·2	G. S. J.	939·38	·36907	·36904	+·00003	·36905	
,,	27	12 26	2·7049	1·34	29·9	−4·7	71·1	89·1	26 35 32		10 49 4	29·8	70·3	89·1	G. S. J.	939·59	·36928	·36928	·00000	·36928	
,,	,,	15 7	2·7056	1·35	29·4	,,	64·1	89·1	26 36 19		10 49 17	29·8	67·0	89·1	G. S. J.	939·42	·36906	·36907	−·00001	·36906	
July	4	12 14	2·7048	1·37	29·3	−4·9	67·8	88·2	26 36 37		10 49 27	29·0	68·7	88·2	G. S. J.	939·57	·36920	·36920	·00000	·36920	
,,	,,	15 9	2·7052	1·36	28·4	,,	60·4	88·2	26 37 31		10 49 50	28·6	65·3	88·2	G. S. J.	939·42	·36900	·36899	+·00001	·36899	
,,	11	12 11	2·7042	1·35	27·8	−4·9	64·0	88·6	26 37 35		10 49 48	28·0	63·2	88·6	G. S. J.	939·46	·36915	·36915	·00000	·36915	
,,	,,	15 3	2·7064	1·35	28·9	,,	55·6	88·6	26 38 26		10 50 11	28·8	56·5	88·6	G. S. J.	939·40	·36878	·36877	+·00001	·36877	0·369025
,,	18	12 9	2·7025	1·36	27·0	−4·9	69·9	88·1	26 37 29		10 49 45	27·1	67·5	88·1	G. S. J.	939·64	·36939	·36940	−·00001	·36939	
,,	,,	15 8	2·7051	1·35	27·8	,,	58·0	88·1	26 38 30		10 50 7	27·5	61·8	88·1	G. S. J.	939·29	·36897	·36899	−·00002	·36898	
,,	25	12 7	2·7046	1·36	27·3	−5·7	60·3	86·0	26 38 57		10 50 18	27·8	58·8	86·0	G. S. J.	939·53	·36890	·36892	−·00002	·36891	
,,	,,	15 4	2·7056	1·35	27·8	,,	56·2	86·0	26 39 1		10 50 17	28·0	57·4	86·0	G. S. J.	939·33	·36880	·36882	·00002	·36881	

Aug.	2	12	21	2·7059	1·33	28·9	−5·8	56·4	86·0	26 38 2	10 49 57	28·8	56·6	86·0	G. S. J.	939·42	·36888	·36889	−·00001	·36888	
,,	,,	15	7	2·7066	1·35	29·0	,,	51·8	86·0	26 38 29	10 50 9	29·0	53·7	86·0	G. S. J.	939·38	·36872	·36873	−·00001	·36872	
,,	8	12	16	2·7068	1·35	29·2	−5·3	50·3	86·3	26 39 41	10 50 31	28·7	47·5	86·3	G. S. J.	939·55	·36860	·36864	−·00004	·36862	
,,	,,	15	6	2·7062	1·36	28·7	,,	46·3	86·3	26 39 35	10 50 31	28·9	47·8	86·3	G. S. J.	939·70	·36866	·36866	−·00001	·36865	
,,	15	12	20	2·7062	1·37	30·2	−5·0	54·9	87·1	26 36 21	10 49 22	30·2	54·2	87·1	G. S. J.	939·49	·36900	·36899	+·00001	·36899	·368840
,,	,,	15	4	2·7074	1·35	30·5	,,	48·6	87·1	26 36 45	10 49 31	30·4	51·1	87·1	G. S. J.	939·29	·36881	·36880	+·00001	·36880	
,,	22	12	51	2·7039	1·35	28·0	−5·0	52·6	88·1	26 38 17	10 50 9	28·0	52·3	88·1	N.	939·83	·36912	·36911	+·00001	·36911	
,,	,,	15	13	2·7055	1·39	27·9	,,	47·7	88·1	26 38 45	10 50 17	28·3	49·4	88·1	N.	939·42	·36881	·36880	+·00001	·36880	
,,	29	12	27	2·7047	1·37	28·1	−5·6	52·9	86·9	26 38 21	10 49 56	28·4	51·5	86·9	N.	939·57	·36897	·36902	−·00005	·36899	
,,	,,	15	15	2·7057	1·36	28·6	,,	47·3	86·9	26 38 36	10 50 12	28·5	49·4	86·9	N.	939·51	·36884	·36884	·00000	·36884	
Sept.	5	12	2	2·7053	1·30	28·2	−5·7	45·9	87·0	26 38 51	10 50 28	28·5	45·3	87·0	N.	939·68	·36883	·36878	+·00005	·36880	
,,	,,	15	22	2·7061	1·34	28·4	,,	42·0	87·0	26 39 16	10 50 31	28·7	43·6	87·0	N.	939·59	·36868	·36867	+·00001	·36867	
,,	12	12	36	2·7049	1·36	27·9	−5·4	49·9	86·9	26 38 46	10 50 16	27·9	49·4	86·9	N.	939·53	·36894	·36894	·00000	·36894	
,,	,,	15	4	2·7053	1·31	28·0	,,	46·0	86·9	26 39 7	10 50 31	27·7	47·0	86·9	N.	939·51	·36886	·36883	+·00003	·36884	
,,	19	12	6	2·7049	1·35	28·9	−5·1	49·5	87·2	26 37 50	10 49 57	28·7	47·7	87·2	N.	939·72	·36905	·36904	+·00001	·36904	·368787
,,	,,	15	6	2·7058	1·38	29·0	,,	43·2	87·2	26 38 3	10 50 5	29·0	44·2	87·2	N.	939·59	·36888	·36881	+·00007	·36884	
,,	26	12	13	2·7057	1·38	28·8	−5·0	42·2	87·9	26 38 40	10 50 17	28·9	40·5	87·9	N.	939·68	·36882	·36880	+·00002	·36881	
,,	,,	15	28	2·7080	1·38	29·1	,,	31·2	87·9	26 39 52	10 50 45	29·3	32·8	87·9	N.	939·36	·36837	·36835	+·00002	·36836	
Oct.	3	12	29	2·7059	1·34	29·1	−4·6	42·9	88·0	26 38 2	10 49 57	29·0	42·0	88·0	G. S. J.	939·53	·36888	·36889	−·00001	·36888	
,,	,,	15	9	2·7068	1·35	29·1	,,	36·4	88·1	26 38 37	10 50 11	29·3	37·3	88·1	G. S. J.	939·42	·36867	·36868	−·00001	·36867	
,,	10	12	6	2·7053	1·34	29·6	−4·7	†112·8	88·6	26 36 57	10 49 32	29·3	†111·0	88·6	G. S. J.	939·59	·36910	·36911	−·00001	·36910	
,,	,,	15	6	2·7066	1·35	29·7	,,	106·2	88·7	26 37 41	10 49 52	29·7	106·6	88·7	G. S. J.	939·51	·36882	·36882	·00000	·36882	
,,	18	12	33	2·7052	1·37	30·1	−3·9	114·4	89·0	26 35 31	10 49 1	30·1	112·0	89·0	G. S. J.	939·55	·36923	·36924	−·00001	·36923	
,,	,,	15	33	2·7077	1·37	30·5	,,	104·8	89·1	26 36 19	10 49 21	30·6	106·5	89·1	G. S. J.	939·12	·36880	·36879	+·00001	·36879	·368905
,,	24	12	20	2·7067	1·36	31·1	−3·5	106·8	89·1	26 35 55	10 49 12	30·8	105·6	89·1	G. S. J.	939·55	·36901	·36901	·00000	·36901	
,,	,,	15	2	2·7075	1·35	30·9	,,	102·8	89·1	26 36 7	10 49 14	31·2	103·8	89·1	G. S. J.	939·38	·36882	·36883	−·00001	·36882	
,,	31	12	21	2·7048	1·31	28·6	−3·2	104·9	88·5	26 38 4	10 50 1	28·7	102·8	88·5	G. S. J.	939·77	·36901	·36901	·00000	·36901	
,,	,,	15	9	2·7064	1·32	28·9	,,	87·3	88·5	26 38 41	10 50 17	29·0	88·6	88·5	G. S. J.	939·53	·36873	·36872	+·00001	·36872	
Nov.	7	12	24	2·7061	1·35	30·0	−3·4	94·1	88·8	26 36 28	10 49 23	29·9	92·8	88·8	G. S. J.	939·46	·36903	·36903	·00000	·36903	
,,	,,	15	0	2·7071	1·33	30·2	,,	89·6	88·8	26 36 30	10 49 30	30·2	90·3	88·8	G. S. J.	939·27	·36888	·36885	+·00003	·36886	
,,	14	12	14	2·7059	1·36	29·1	−3·1	92·4	88·2	26 37 11	10 49 35	29·2	91·6	88·2	G. S. J.	939·31	·36896	·36899	−·00003	·36897	
,,	,,	15	2	2·7070	1·34	30·1	,,	86·1	88·2	26 37 26	10 49 46	29·9	87·5	88·2	G. S. J.	939·42	·36880	·36880	·00000	·36880	
,,	21	12	16	2·7064	1·33	29·6	−2·9	90·7	88·0	26 36 52	10 49 31	30·0	90·0	88·0	G. S. J.	939·42	·36890	·36891	−·00001	·36890	·368809
,,	,,	15	1	2·7069	1·37	29·5	,,	87·0	88·0	26 37 30	10 49 49	29·6	88·4	88·0	G. S. J.	939·31	·36879	·36878	+·00001	·36878	
,,	28	12	29	2·7059	1·37	29·1	−2·5	87·7	88·2	26 37 41	10 49 51	29·1	87·3	88·2	G. S. J.	939·49	·36892	·36893	−·00001	·36892	
,,	,,	15	4	2·7073	1·35	29·5	,,	82·7	88·2	26 38 3	10 50 1	29·4	84·2	88·2	G. S. J.	939·25	·36869	·36869	·00000	·36869	
Dec.	5	13	0	2·7054	1·41	27·7	−2·6	84·9	87·2	26 39 30	10 50 36	27·9	83·6	87·2	G. S. J.	939·57	·36878	·36877	+·00001	·36877	
,,	,,	14	59	2·7065	1·40	28·0	,,	82·3	87·2	26 39 27	10 50 34	28·0	82·9	87·2	G. S. J.	939·27	·36865	·36865	·00000	·36865	
,,	12	12	28	2·7056	1·40	27·7	−2·4	82·3	86·6	26 40 5	10 50 46	27·5	82·2	86·6	G. S. J.	939·55	·36873	·36873	·00000	·36873	
,,	,,	15	1	2·7060	1·44	27·7	,,	78·7	86·7	26 40 36	10 51 7	27·9	77·8	86·7	G. S. J.	939·70	·36858	·36854	+·00004	·36856	·368719
,,	19	12	24	2·7037	1·43	26·0	−2·4	85·1	86·0	26 40 31	10 51 2	26·0	83·3	86·0	G. S. J.	939·64	·36893	·36890	+·00003	·36891	
,,	,,	15	2	2·7049	1·41	26·2	,,	80·2	86·0	26 40 51	10 51 10	26·3	81·1	86·0	G. S. J.	939·44	·36871	·36869	+·00002	·36870	
,,	26	11	51	2·7056	1·41	28·0	−2·7	82·0	85·7	26 39 19	10 50 27	27·9	81·7	85·7	G. S. J.	939·51	·36880	·36881	−·00001	·36880	
,,	,,	15	2	2·7065	1·41	28·3	,,	78·6	85·8	26 39 25	10 50 30	28·5	79·2	85·8	G. S. J.	939·42	·36863	·36864	−·00001	·36863	

The mean* observed value of the Horizontal Force for the year 1906 = 0·368889

† H. F. Magnetograph was readjusted

* The monthly and annual means corrected for diurnal variation appear in table VIII

Absolute Magnetical Observations, Alibag—Table Ib.

Observations of Vibration and Deflection, taken with Magnetometer No. 3 (Cambridge Scientific Instrument Co.) for the determination of Absolute Horizontal Force.

1906.

1906. Date.	Civil Time, Mean.	Vibration Magnet. Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Angle of Deflection. Distance. 23 cms.	30 cms.	Corresponding Mean Reading of H. F. Magnetograph. Temperature.	Scale Reading.	Thermometer.	Observer.	Calculated Results in C. G. S. Unit. Values of m.	Values of H. From Deflection at distance. 23 cms (H_{23}).	30 cms (H_{30}).	Difference. $H_{23}-H_{30}$	Mean. $\frac{H_{23}+H_{30}}{2}$	Observed monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	h. m.	s.	sc. div.	°	s.	mm.	°	° ′ ″	° ′ ″	°	mm.	°							
JAN. 1	13 1	2·8633	1·95	24·6	−3·5	105·8	84·0	23 53 58	10 31 57	24·4	105·7	84·0	G. S. J.	918·86	0·36887	0·36885	+·00002	0·36886	
,, 5	15 12	2·8637	2·02	24·7	,,	105·8	83·9	23 54 19	10 32 5	24·3	105·8	83·9	G. S. J.	918·82	·36879	·36877	+·00002	·36878	
,, 8	12 28	2·8633	2·07	25·3	−3·7	106·0	83·0	23 54 34	10 32 17	24·2	103·4	83·0	G. S. J.	919·16	·36886	·36882	+·00004	·36884	
,, 11	15 11	2·8646	1·82	25·0	,,	99·4	83·0	23 54 35	10 32 9	24·9	99·9	83·0	G. S. J.	918·84	·36863	·36862	+·00001	·36862	
,, 15	12 31	2·8636	1·92	25·4	−3·3	105·1	82·1	23 52 30	10 31 26	26·0	105·1	82·1	G. S. J.	918·88	·36894	·36888	+·00006	·36891	·368852
,, ,,	15 10	2·8646	2·04	25·9	,,	99·6	82·2	23 53 9	10 31 25	26·0	102·4	82·2	G. S. J.	918·76	·36877	·36880	−·00003	·36878	
,, 22	12 36	2·8634	2·03	26·8	−3·6	108·0	82·7	23 52 36	10 31 22	26·1	104·0	82·7	G. S. J.	919·24	·36905	·36904	+·00001	·36904	
,, 8	15 8	2·8641	2·04	26·2	,,	101·6	82·7	23 52 50	10 31 26	26·2	101·6	82·7	G. S. J.	918·97	·36888	·36886	+·00002	·36887	
,, 29	12 38	2·8619	2·17	24·7	−3·6	108·4	82·0	23 53 23	10 31 45	24·8	104·7	82·0	G. S. J.	919·24	·36909	·36905	+·00004	·36907	
,, ,,	15 11	2·8640	2·18	24·8	,,	100·7	82·0	23 54 7	10 31 53	24·7	101·6	82·0	G. S. J.	918·71	·36874	·36876	−·00002	·36875	
FEB. 5	12 39	2·8638	1·73	24·7	−3·6	101·2	82·0	23 54 25	10 32 11	24·1	100·5	82·0	G. S. J.	918·86	·36881	·36877	+·00004	·36879	
,, ,,	15 11	2·8643	1·73	24·5	,,	97·4	82·0	23 54 30	10 32 6	24·3	98·4	82·0	G. S. J.	918·65	·36869	·36869	·00000	·36869	
,, 12	12 29	2·8627	1·82	24·5	−3·6	105·9	81·3	23 54 0	10 32 5	23·6	104·5	81·3	G. S. J.	918·92	·36901	·36895	+·00006	·36898	
,, ,,	15 12	2·8630	1·92	24·1	,,	99·4	81·3	23 54 1	10 31 52	23·9	102·1	81·3	G. S. J.	918·73	·36891	·36892	−·00001	·36891	·368691
,, 19	12 33	2·8643	1·76	25·2	−3·8	96·0	81·4	23 54 24	10 32 16	24·7	97·6	81·4	G. S. J.	918·95	·36872	·36866	+·00006	·36869	
,, ,,	15 16	2·8648	1·72	24·8	,,	90·9	81·4	23 54 20	10 32 5	24·7	95·4	81·4	G. S. J.	918·65	·36865	·36863	+·00002	·36864	
,, 26	12 25	2·8649	1·92	24·8	−3·8	92·9	81·5	23 55 27	10 32 36	24·8	90·6	81·5	G. S. J.	918·95	·36847	·36844	+·00003	·36845	
,, ,,	15 10	2·8657	1·79	24·8	,,	86·4	81·4	23 55 37	10 32 25	24·8	87·7	81·4	G. S. J.	918·67	·36836	·36840	−·00004	·36838	
MAR. 5	12 25	2·8653	1·68	26·8	−3·3	94·8	82·0	23 52 52	10 31 30	26·7	93·8	82·0	G. S. J.	918·92	·36875	·36872	+·00003	·36873	
,, ,,	15 11	2·8662	1·76	27·0	,,	89·4	82·0	23 52 48	10 31 27	26·9	91·3	82·0	G. S. J.	918·67	·36863	·36861	+·00002	·36862	
,, 12	12 38	2·8628	1·72	25·6	−3·4	100·1	82·8	23 52 39	10 31 21	25·5	98·4	82·8	G. S. J.	919·12	·36910	·36909	+·00001	·36909	
,, ,,	15 11	2·8639	1·77	25·4	,,	92·4	82·8	23 52 53	10 31 36	25·6	94·2	82·8	G. S. J.	918·84	·36890	·36885	+·00005	·36887	
,, 19	12 30	2·8636	1·63	26·3	−3·4	100·2	83·0	23 52 4	10 31 12	25·8	98·7	83·0	G. S. J.	918·95	·36911	·36907	+·00004	·36909	·368929
,, ,,	15 10	2·8643	1·82	26·0	,,	91·8	83·0	23 52 36	10 31 10	25·9	94·7	83·0	G. S. J.	918·71	·36890	·36894	−·00004	·36892	
,, 26	12 26	2·8636	1·86	27·8	−3·6	100·4	83·5	23 50 6	10 30 24	28·0	97·8	83·5	G. S. J.	919·12	·36926	·36922	+·00004	·36924	
,, ,,	15 10	2·8656	2·09	27·8	,,	89·5	83·5	23 51 1	10 30 40	27·0	92·7	83·5	G. S. J.	918·65	·36888	·36887	+·00001	·36887	

April	2	12	41	2·8639	2·17	27·6	− 3·0	97·9	84·2	23	51	4	10	30	42	26·9	95·6	84·2	G. S. J.	918·95	·36916	·36915	+ ·00001	·36915	
,,	,,	15	13	2·8653	1·96	27·2	,,	88·8	84·2	23	51	26	10	30	53	27·1	91·1	84·2	G. S. J.	918·59	·36890	·36888	+ ·00002	·36889	
,,	,,	9	12	34	2·8656	2·00	27·9	− 3·6	90·4	85·2	23	52	22	10	31	18	26·7	86·1	85·2	G. S. J.	918·84	·36884	·36881	+ ·00003	·36882	
,,	,,	15	9	2·8672	2·07	27·3	,,	75·6	85·2	23	53	2	10	31	31	27·1	79·4	85·2	G. S. J.	918·46	·36846	·36845	− ·00001	·36845	
,,	16	12	25	2·8637	1·82	28·0	− 3·5	95·4	86·1	23	50	22	10	30	30	27·4	92·9	86·1	G. S. J.	919·07	·36928	·36925	+ ·00003	·36926	·368900
,,	,,	15	8	2·8656	1·76	27·4	,,	85·4	86·1	23	51	2	10	30	45	27·0	88·5	86·1	G. S. J.	918·44	·36894	·36892	+ ·00002	·36893	
,,	23	12	40	2·8669	1·92	29·8	− 3·4	85·1	87·0	23	50	0	10	30	10	29·8	84·5	87·0	G. S. J.	918·78	·36885	·36887	− ·00002	·36886	
,,	,,	15	11	2·8675	1·80	29·7	,,	79·4	87·0	23	49	54	10	30	4	29·6	82·9	87·0	G. S. J.	918·50	·36881	·36883	− ·00002	·36882	
,,	30	12	34	2·8665	1·81	30·8	− 3·5	85·7	88·1	23	49	58	10	30	16	29·4	84·1	88·1	G. S. J.	919·09	·36904	·36902	+ ·00002	·36903	
,,	,,	15	11	2·8674	1·90	29·6	,,	78·1	88·1	23	50	10	10	30	11	29·5	80·4	88·1	G. S. J.	918·54	·36877	·36881	− ·00004	·36879	
May	7	12	41	2·8661	1·71	29·8	− 3·6	84·6	88·9	23	48	51	10	29	48	30·0	82·4	88·9	G. S. J.	918·82	·36909	·36907	+ ·00002	·36908	
,,	,,	15	8	2·8670	1·88	30·2	,,	78·5	88·9	23	48	46	10	29	43	30·3	80·0	88·9	G. S. J.	918·59	·36897	·36897	·00000	·36897	
,,	14	12	25	2·8668	1·74	30·9	− 3·7	82·6	89·8	23	48	9	10	29	31	30·8	81·8	89·8	G. S. J.	918·80	·36910	·36908	+ ·00002	·36909	
,,	,,	15	15	2·8664	1·90	30·7	,,	79·0	89·8	23	46	42	10	28	46	30·9	85·4	89·8	G. S. J.	919·37	·36929	·36932	− ·00003	·36930	·368451
,,	21	12	27	2·8683	1·87	31·4	− 3·4	69·9	91·0	23	50	12	10	30	21	30·6	70·4	91·0	G. S. J.	918·97	·36871	·36871	·00000	·36871	
,,	,,	14	45	2·8693	1·89	30·8	,,	64·9	91·0	23	49	50	10	30	19	30·8	67·0	91·0	G. S. J.	918·48	·36855	·36856	+ ·00005	·36852	
,,	28	12	25	2·8663	1·76	30·7	− 3·6	76·3	91·7	23	48	33	10	29	41	30·6	74·7	91·7	G. S. J.	918·93	·36912	·36910	+ ·00002	·36911	
,,	,,	15	9	2·8678	1·80	30·9	,,	65·7	91·7	23	49	8	10	30	3	30·7	67·8	91·7	G. S. J.	918·78	·36880	·36880	+ ·00000	·36883	
June	4	12	24	2·8681	1·73	30·6	− 3·5	63·7	92·2	23	49	34	10	30	0	31·3	64·0	92·2	G. S. J.	918·82	·36870	·36871	− ·00001	·36870	
,,	,,	15	10	2·8694	1·87	31·6	,,	59·8	92·2	23	48	56	10	29	42	31·6	62·6	92·2	G. S. J.	918·40	·36865	·36867	− ·00002	·36866	
,,	11	12	13	2·8658	1·73	29·8	− 3·7	70·1	92·6	23	49	30	10	30	2	29·2	68·0	92·6	G. S. J.	918·90	·36911	·36911	·00000	·36911	
,,	,,	15	11	2·8660	1·96	27·9	,,	61·7	92·5	23	50	57	10	30	32	28·1	64·8	92·5	G. S. J.	918·54	·36883	·36886	− ·00003	·36884	
,,	18	12	1	2·8652	1·93	28·3	− 4·3	64·9	91·5	23	50	37	10	30	38	27·9	64·6	91·5	G. S. J.	918·84	·36904	·36899	+ ·00005	·36901	·368924
,,	,,	15	11	2·8668	1·79	28·0	,,	59·1	91·4	23	51	24	10	30	42	27·7	61·5	91·4	G. S. J.	918·37	·36874	·36877	− ·00003	·36875	
,,	25	12	16	2·8649	1·76	28·9	− 4·7	71·6	89·6	23	48	22	10	29	40	28·9	72·4	89·6	G. S. J.	918·65	·36932	·36928	+ ·00004	·36930	
,,	,,	15	9	2·8663	1·92	28·8	,,	64·0	89·6	23	49	6	10	29	52	28·9	68·1	89·6	G. S. J.	918·33	·36903	·36902	+ ·00001	·36902	
July	2	12	34	2·8664	1·19	28·9	− 4·8	66·6	88·4	23	49	20	10	30	2	28·8	67·0	88·4	G. S. J.	918·48	·36905	·36902	+ ·00003	·36903	
,,	,,	15	14	2·8678	1·20	28·9	,,	59·5	88·4	23	49	35	10	30	6	29·1	64·1	88·4	G. S. J.	918·10	·36882	·36880	+ ·00002	·36881	
,,	9	12	28	2·8651	1·09	27·7	− 5·1	67·6	88·4	23	49	43	10	30	12	28·2	60·7	88·4	G. S. J.	918·63	·36912	·36910	+ ·00002	·36911	
,,	15	12	12	2·8674	1·06	28·2	,,	56·8	88·4	23	50	41	10	30	40	27·9	60·5	88·4	G. S. J.	918·25	·36878	·36873	+ ·00005	·36875	
,,	16	12	33	2·8658	1·04	27·5	− 4·2	61·9	88·1	23	50	58	10	30	45	27·3	61·7	88·1	G. S. J.	918·57	·36895	·36892	+ ·00003	·36893	
,,	,,	15	15	2·8669	1·02	27·9	,,	55·3	88·1	23	51	12	10	30	46	27·5	58·2	88·1	G. S. J.	918·42	·36891	·36880	+ ·00001	·36880	·368903
,,	23	12	19	2·8640	1·04	26·5	− 5·3	66·4	86·8	23	51	14	10	30	48	26·1	66·0	86·8	G. S. J.	918·71	·36916	·36915	+ ·00001	·36915	
,,	,,	15	9	2·8656	1·03	26·2	,,	57·1	86·7	23	51	53	10	31	6	26·0	61·3	86·7	G. S. J.	918·31	·36887	·36884	+ ·00003	·36885	
,,	31	12	16	2·8666	1·03	28·7	− 6·1	56·9	86·0	23	50	32	10	30	28	28·6	55·7	86·0	G. S. J.	918·09	·36888	·36888	·00000	·36888	
,,	,,	15	13	2·8675	1·04	28·6	,,	53·1	86·0	23	51	3	10	30	40	28·3	54·1	86·0	G. S. J.	918·46	·36873	·36872	+ ·00001	·36872	
Aug.	6	12	33	2·8655	1·04	28·4	− 5·3	60·7	86·2	23	50	15	10	30	28	28·0	58·7	86·2	G. S. J.	918·80	·36909	·36905	+ ·00004	·36907	
,,	,,	15	8	2·8669	1·04	28·2	,,	52·7	86·2	23	50	50	10	30	41	28·1	54·1	86·2	G. S. J.	918·48	·36882	·36878	+ ·00004	·36880	
,,	13	12	15	2·8687	1·02	29·0	− 5·1	43·0	87·0	23	51	35	10	30	57	28·7	46·1	87·0	G. S. J.	918·44	·36850	·36849	+ ·00001	·36849	
,,	,,	15	10	2·8685	1·01	28·7	,,	43·5	87·0	23	51	26	10	30	52	28·8	45·5	87·0	G. S. J.	918·42	·36853	·36851	+ ·00002	·36852	·368881
,,	20	12	18	2·8649	1·02	29·2	− 4·8	58·6	88·0	23	49	21	10	30	13	28·8	55·7	88·0	N.	919·14	·36928	·36921	+ ·00007	·36924	
,,	,,	15	14	2·8667	1·02	28·3	,,	46·7	88·0	23	50	25	10	30	35	28·1	49·5	88·0	N.	918·50	·36891	·36885	+ ·00006	·36888	
,,	27	12	13	2·8645	1·04	26·8	− 5·3	57·3	87·1	23	50	41	10	30	51	26·7	57·5	87·1	N.	918·69	·36915	·36905	+ ·00010	·36910	
,,	,,	15	40	2·8660	1·05	27·1	,,	50·2	87·0	23	50	27	10	30	40	26·8	54·2	87·0	N.	918·18	·36899	·36892	+ ·00007	·36895	
Sept.	3	12	41	2·8663	1·32	28·7	− 5·8	50·5	87·0	23	50	22	10	30	35	28·5	48·7	87·0	N.	918·73	·36894	·36888	+ ·00006	·36891	
,,	,,	15	14	2·8672	1·33	28·3	,,	44·6	87·0	23	49	42	10	30	32	28·3	46·3	87·0	N.	918·18	·36888	·36875	+ ·00013	·36881	
,,	10	12	40	2·8662	1·02	27·8	− 5·7	51·2	86·9	23	49	6	10	30	17	28·0	49·8	86·9	N.	918·21	·36909	·36896	+ ·00013	·36902	
,,	,,	15	9	2·8667	0·97	27·9	,,	46·9	86·9	23	50	16	10	30	35	27·7	47·6	86·9	N.	918·31	·36893	·36885	+ ·00008	·36889	
,,	17	12	11	2·8674	0·90	28·6	− 5·3	47·5	87·1	23	49	20	10	30	24	28·5	46·6	87·1	N.	918·21	·36894	·36880	+ ·00014	·36887	·368801
,,	,,	15	7	2·8677	0·84	28·7	,,	42·0	87·1	23	50	22	10	30	37	28·5	43·2	87·1	N.	918·37	·36879	·36872	+ ·00007	·36875	
,,	24	12	18	2·8682	0·81	28·3	− 5·0	38·7	87·8	23	51	25	10	31	2	28·0	38·7	87·8	N.	918·31	·36860	·36854	+ ·00006	·36857	
,,	,,	15	18	2·8684	0·79	28·2	,,	37·0	87·8	23	51	10	10	30	46	28·0	38·4	87·8	N.	918·10	·36860	·36859	+ ·00001	·36859	

1906.		Vibration Magnet.			Rate of Chrono-meter.	Corresponding Mean Reading of H. F. Magnetograph.		Angle of Deflection.			Corresponding Mean Reading of H. F. Magnetograph.		Observer.	Calculated Results in C. G. S. Unit.				
								Distance.						Values of m.	Values of H.			
Date.	Civil Time, Mean.	Time of one Vibration.	Effect of 90° Torsion.	Tem-perature.		Scale Reading.	Thermo-meter.	23 cms.	30 cms.	Temper-ature.	Scale Reading.	Thermo-meter.			From Deflection at distance.		Difference.	Mean.
															23 cms (H_{23}).	30 cms (H_{30}).	$H_{23} - H_{30}$.	$\frac{H_{23} + H_{30}}{2}$
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	H. m.	S.	Sc. div.		S.	mm.		° ′ ″	° ′ ″	°	mm.	°						
Oct. 1	12 18	2·8670	0·77	28·7	−4·9	46·3	88·0	23 50 6	10 30 38	28·5	41·7	88·0	N.	918·59	0·36893	0·36882	+·00011	0·36887
,, ,,	15 19	2·8682	0·77	28·6	,,	35·3	88·0	23 52 2	10 30 48	28·5	35·4	88·0	N.	918·54	·36853	·36860	−·00007	·36856
,, 8	12 24	2·8659	0·80	29·0	−4·1	*117·0	88·3	23 48 10	10 29 43	28·8	*115·4	88·3	G. S. J.	918·44	·36930	·36922	+·00008	·36926
,, ,,	15 8	2·8676	0·80	28·8	,,	107·5	88·3	23 48 53	10 30 0	28·7	110·0	88·3	G. S. J.	918·06	·36898	·36891	+·00007	·36894
,, 16	12 25	2·8670	0·81	30·7	−4·6	114·4	89·0	23 48 1	10 29 33	30·1	112·6	89·1	G. S. J.	918·67	·36920	·36916	+·00004	·36918
,, ,,	15 8	2·8684	0·83	29·9	,,	103·9	89·1	23 49 6	10 29 48	29·9	107·0	89·1	G. S. J.	918·27	·36883	·36884	−·00001	·36883
,, 22	12 25	2·8683	0·85	31·1	−3·9	107·0	89·0	23 48 40	10 29 33	30·5	106·7	89·0	G. S. J.	918·52	·36895	·36899	−·00004	·36897
,, ,,	15 10	2·8690	0·85	30·5	,,	101·8	89·0	23 49 10	10 29 51	30·5	103·3	89·0	G. S. J.	918·35	·36874	·36875	−·00001	·36874
,, 29	12 40	2·8666	0·86	28·7	−3·0	*96·9	88·7	23 50 20	10 30 31	28·2	*94·3	88·7	C. S. J.	918·63	·36897	·36892	+·00005	·36894
,, ,,	15 11	2·8677	0·86	28·7	,,	88·6	88·7	23 50 21	10 30 21	28·8	91·1	88·7	G. S. J.	918·37	·36878	·36878	·00000	·36878
Nov. 5	12 51	2·8688	1·45	29·6	−3·4	83·5	88·8	23 51 24	10 31 0	29·3	82·8	88·8	G. S. J.	918·61	·36850	·36844	+·00006	·36847
,, ,,	15 7	2·8694	1·46	29·8	,,	81·2	88·8	23 51 37	10 30 51	29·5	81·3	88·8	G. S. J.	918·48	·36838	·36840	−·00002	·36839
,, 12	12 23	2·8671	1·78	29·5	−3·4	92·0	88·3	23 49 23	10 30 0	29·6	91·2	88·3	G. S. J.	918·48	·36890	·36889	+·00001	·36889
,, ,,	15 12	2·8680	1·79	29·6	,,	86·1	88·3	23 49 33	10 30 2	29·7	88·4	88·3	G. S. J.	918·27	·36876	·36876	·00000	·36876
,, 19	12 31	2·8674	2·04	29·6	−2·7	88·2	88·1	23 49 30	10 30 2	29·8	88·2	88·1	G. S. J.	918·46	·36882	·36882	·00000	·36882
,, ,,	15 19	2·8684	1·76	29·8	,,	85·2	88·1	23 49 31	10 30 2	29·7	86·9	88·1	G. S. J.	918·21	·36874	·36874	·00000	·36874
,, 26	12 31	2·8678	1·55	30·5	−2·6	86·0	88·4	23 49 20	10 30 5	30·4	84·8	88·4	G. S. J.	918·71	·36885	·36881	+·00004	·36883
,, ,,	15 5	2·8687	1·54	30·3	,,	83·5	88·4	23 49 30	10 30 0	30·4	83·9	88·4	G. S. J.	918·37	·36870	·36870	·00000	·36870
Dec. 3	12 34	2·8657	1·52	27·5	−2·7	87·5	87·5	23 51 41	10 31 7	27·0	85·1	87·5	G. S. J.	918·71	·36888	·36883	+·00005	·36885
,, 8	12 32	2·8675	1·67	27·7	,,	80·0	87·5	23 51 45	10 30 57	27·6	81·9	87·5	G. S. J.	918·27	·36861	·36860	+·00001	·36860
,, 10	12 32	2·8672	1·69	28·6	−2·2	83·2	86·8	23 50 40	10 30 47	28·6	81·4	86·9	G. S. J.	918·54	·36875	·36867	+·00008	·36871
,, ,,	15 7	2·8682	1·71	28·5	,,	79·5	86·9	23 51 12	10 30 40	28·5	80·0	86·9	G. S. J.	918·21	·36856	·36857	−·00001	·36856
,, 17	12 34	2·8649	1·70	26·6	−2·4	84·9	86·0	23 53 17	10 31 42	25·9	80·9	86·0	G. S. J.	918·99	·36882	·36878	+·00004	·36880
,, ,,	15 11	2·8674	1·69	26·7	,,	75·5	86·1	23 53 16	10 31 37	26·5	77·5	86·1	G. S. J.	918·29	·36844	·36843	+·00001	·36843
,, 24	12 34	2·8683	1·64	27·9	−2·8	74·4	85·6	23 53 31	10 31 37	27·2	74·3	85·6	G. S. J.	918·48	·36835	·36837	−·00002	·36836
,, ,,	15 15	2·8681	1·64	27·4	,,	74·1	85·6	23 53 3	10 31 23	27·4	74·0	85·6	G. S. J.	918·31	·36837	·36840	−·00003	·36838
,, 31	12 36	2·8656	1·68	27·2	−2·7	84·1	85·8	23 52 11	10 31 12	26·7	82·1	85·8	G. S. J.	918·71	·36883	·36881	+·00002	·36882
,, ,,	15 13	2·8669	1·69	27·3	,,	79·0	85·7	23 52 37	10 31 1	27·0	79·9	85·7	G. S. J.	918·37	·36860	·36868	−·00008	·36864

Observed monthly Mean Values of H.: ·368907 (Oct. 1 – Nov. 5); ·368700 (Nov. 12 – Dec. 3); ·368615 (Dec. 10 – Dec. 31)

The mean observed value of the Horizontal Force for the year 1906 = 0·368838

* Adjustment of the H. F. Magnetograph.

Absolute Magnetical Observations, Alibag—Table IIa.

OBSERVATIONS OF ABSOLUTE DECLINATION, 1906.

Taken with Magnetometer No. 7 (T. Cooke and Sons).

1906. Date.	Mean Readings. Alibag Civil Time.	Collimator Magnet. Scale apparently. Erect.	Collimator Magnet. Scale apparently. Inverted.	Horizontal Circle with Telescope pointed to. Scale of Collimator Magnet.	Horizontal Circle with Telescope pointed to. Kennery Light House.	Torsion. Mean.	Torsion. Effect of 90°.	Observer.	Corresponding ordinate of Declination Magnetograms.	Absolute Easterly Declination corrected for Torsion.	Monthly Mean. Corresponding ordinate of Declination Magnetograms.	Monthly Mean. Observed absolute Easterly Declination.
1	2	3	4	5	6	7	8	9	10	11	12	13
	H. m.	Sc. div.	Sc. div.	° ′ ″	° ′ ″	°	Sc. div.		cms.	° ′ ″	cms.	° ′ ″
JAN. 4	11 43	55·6	...	85 40 40	222 26 25	0	...	G. S. J.	4·727	1 7 40	4·641	1 6 50
,, 11	11 50	55·6	...	85 39 45	222 26 10	0	...	G. S. J.	4·662	1 7 0		
,, 18	11 47	55·6	...	85 39 10	222 26 10	0	...	G. S. J.	4·592	1 6 25		
,, 25	11 44	55·6	...	85 39 5	222 26 15	0	...	G. S. J.	4·582	1 6 15		
FEB. 1	11 44	55·6	...	85 40 35	222 26 5	0	...	G. S. J.	4·737	1 7 55	4·681	1 7 14
,, 8	11 47	55·6	...	85 39 55	222 26 10	0	...	G. S. J.	4·670	1 7 10		
,, 15	11 39	55·6	...	85 39 0	222 26 5	0	...	G. S. J.	4·615	1 6 20		
,, 22	11 52	55·6	...	85 40 0	222 25 55	0	...	G. S. J.	4·702	1 7 30		
MARCH 1	11 53	55·6	...	85 38 20	222 26 10	0	...	G. S. J.	4·547	1 5 35	4·531	1 5 30
,, 8	11 43	55·6	...	85 38 15	222 26 0	0	...	G. S. J.	4·552	1 5 40		
,, 15	11 45	55·6	...	85 39 5	222 25 55	0	...	G. S. J.	4·632	1 6 35		
,, 22	11 50	55·6	...	85 38 35	222 25 45	0	...	G. S. J.	4·605	1 6 15		
,, 29	11 42	55·6	...	85 35 50	222 25 50	0	...	G. S. J.	4·317	1 3 25		
APRIL 6	11 32	55·6	...	85 37 0	222 26 0	0	...	G. S. J.	4·415	1 4 25	4·378	1 4 10
,, 12	11 38	55·6	...	85 37 30	222 25 55	0	...	G. S. J.	4·465	1 5 0		
,, 19	11 49	55·6	...	85 34 10	222 25 45	0	...	G. S. J.	4·140	1 1 50		
,, 26	11 49	55·6	...	85 37 55	222 25 55	0	...	G. S. J.	4·492	1 5 25		
MAY 3	11 52	55·6	...	85 36 10	222 26 0	0	...	G. S. J.	4·290	1 3 35	4·251	1 3 20
,, 10	11 39	55·6	...	85 34 55	222 26 10	0	...	C. S. J.	4·152	1 2 10		
,, 17	11 41	55·6	...	85 36 25	222 26 10	0	...	G. S. J.	4·275	1 3 40		
,, 24	11 32	55·6	...	85 35 45	222 26 10	0	...	G. S. J.	4·232	1 3 0		
,, 31	11 37	55·6	...	85 37 0	222 26 10	0	...	G. S. J.	4·307	1 4 15		
JUNE 7	11 36	55·6	...	85 36 5	222 26 0	0	...	G. S. J.	4·245	1 3 30	4·263	1 3 29
,, 14	11 32	55·6	...	85 36 10	222 26 10	0	...	G. S. J.	4·232	1 3 25		
,, 21	11 48	55·6	...	85 36 40	*131 24 55	0	...	G. S. J.	4·325	1 3 48		
,, 28	11 22	55·6	...	85 36 0	222 26 10	0	...	G. S. J.	4·252	1 3 15		
JULY 5	11 48	55·6	...	85 34 50	*131 24 55	0	...	G. S. J.	4·175	1 1 58	4·309	1 3 31
,, 12	11 35	55·6	...	85 36 30	222 26 15	0	...	G. S. J.	4·305	1 3 40		
,, 19	11 42	55·6	...	85 35 45	222 26 20	0	...	G. S. J.	4·247	1 2 50		
,, 26	11 48	55·6	...	85 38 30	222 26 20	0	...	G. S. J.	4·510	1 5 35		
AUG. 3	11 38	55·6	...	85 36 45	222 26 15	0	...	G. S. J.	4·340	1 3 55	4·251	1 3 5
,, 9	11 38	55·6	...	85 36 45	222 26 25	0	...	G. S. J.	4·325	1 3 45		
,, 16	11 35	55·6	...	85 36 15	222 26 20	0	...	G. S. J.	4·285	1 3 20		
,, 24	11 47	55·6	...	85 34 20	222 26 10	0	...	N.	4·075	1 1 35		
,, 30	11 54	55·6	...	85 36 0	222 26 35	0	...	N.	4·232	1 2 50		
SEPT. 6	11 34	55·6	...	85 34 50	222 26 40	0	...	N.	4·082	1 1 35	4·196	1 2 46
,, 13	11 41	55·6	...	85 35 40	222 26 20	0	...	N.	4·232	1 2 45		
,, 20	11 17	55·6	...	85 36 50	222 26 35	0	...	N.	4·275	1 3 40		
,, 28	11 15	55·6	...	85 36 20	222 26 40	0	...	N.	4·197	1 3 5		
OCT. 4	11 40	55·6	...	85 34 30	222 26 5	0	...	G. S. J.	4·095	1 1 50	4·223	1 3 5
,, 11	11 38	55·6	...	85 35 35	222 26 5	0	...	G. S. J.	4·235	1 2 55		
,, 19	12 9	55·6	...	85 35 40	222 25 55	0	...	G. S. J.	4·227	1 3 10		
,, 25	11 51	55·6	...	85 36 55	222 25 55	0	...	C. S. J.	4·337	1 4 25		
NOV. 1	11 51	55·6	...	85 34 35	222 25 30	0	...	G. S. J.	+6·405	1 2 30	6·530	1 3 50
,, 8	11 48	55·6	...	85 35 15	222 25 20	0	...	G. S. J.	6·495	1 3 20		
,, 15	11 36	55·6	...	85 36 0	222 25 30	0	...	G. S. J.	6·540	1 3 55		
,, 22	11 49	55·6	...	85 37 30	222 25 35	0	...	G. S. J.	6·685	1 5 20		
,, 29	11 49	55·6	...	85 36 5	222 25 25	0	...	G. S. J.	6·527	1 4 5		
DEC. 6	11 46	55·6	...	85 35 50	222 25 25	0	...	G. S. J.	6·500	1 3 50	6·523	1 3 52
,, 13	11 58	55·6	...	85 36 35	222 25 30	0	...	G. S. J.	6·602	1 4 30		
,, 20	11 54	55·6	...	85 35 5	222 25 15	0	...	G. S. J.	6·462	1 3 15		
,, 27	12 12	55·6	...	85 36 10	222 25 40	0	...	G. S. J.	6·527	1 3 55		

The mean†† observed Declination for the year 1906 = ° 1 ′ 4 ″ 13

* As the Kennery Light House was not visible, the known azimuth of a fixed mark in the niche of the wall has been made use of.

\+ Readjustment of the Declination Magnetograph.

†† The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table IIb.

OBSERVATIONS OF ABSOLUTE DECLINATION, 1906.

Taken with Magnetometer No. 3 (Cambridge Scientific Instrument Co.).

1906. Date.	Alibag Civil Time.	Mean Readings. Collimator Magnet. Scale apparently Erect.	Inverted.	Horizontal Circle with Telescope pointed to. Scale of Collimator Magnet.	Kennery Light House.	Torsion. Mean.	Effect of 90°.	Observer.	Corresponding Reading of Declination Magnetograph.	Absolute Easterly Declination corrected for Torsion.	Monthly Mean. Corresponding Reading of Declination Magnetograph.	Observed Absolute Easterly Declination.
1	2	3	4	5	6	7	8	9	10	11	12	13
	H. m.	Sc. div.	Sc. div.	° ′ ″	° ′ ″	°	Sc. div.		mm.	° ′ ″	mm.	° ′ ″
JAN. 4	12 23	33·80	33·62	276 35 0	53 21 25	0	...	G. S. J.	47·20	1 7 10	46·40	1 5 51
,, 11	13 16	33·75	33·77	276 33 20	53 21 25	0	...	G. S. J.	46·00	1 5 19		
,, 18	12 31	34·07	33·65	276 32 55	53 21 25	0	...	G. S. J.	45·85	1 5 19		
,, 25	12 27	33·90	33·47	276 33 5	53 21 25	10W	0·65	G. S. J.	46·55	1 5 37		
FEB. 1	12 20	34·05	33·67	276 34 0	53 21 5	0	...	G. S. J.	47·45	1 6 42	46·69	1 5 51
,, 8	12 24	33·90	33·55	276 33 30	53 21 20	0	...	G. S. J.	46·70	1 5 54		
,, 15	12 21	34·12	33·52	276 32 50	53 21 50	0	...	G. S. J.	45·75	1 4 59		
,, 22	12 45	33·92	33·77	276 33 50	53 21 35	0	...	G. S. J.	46·85	1 5 48		
MARCH 1	12 34	33·80	33·92	276 33 10	53 21 40	0	...	G. S. J.	45·80	1 4 48	44·95	1 3 54
,, 8	12 24	33·97	33·57	276 32 25	53 21 50	0	...	G. S. J.	45·30	1 4 23		
,, 15	12 29	34·10	33·40	276 32 50	53 21 50	0	...	G. S. J.	46·05	1 5 5		
,, 22	12 30	34·00	33·80	276 31 45	53 21 30	0	...	G. S. J.	44·80	1 3 51		
,, 29	12 24	33·97	33·50	276 29 25	53 21 55	0	...	G. S. J.	42·80	1 1 21		
APRIL 6	12 12	34·05	33·50	276 30 55	53 21 50	0	...	G. S. J.	43·80	1 3 1	43·46	1 2 38
,, 12	12 19	33·97	33·60	276 31 5	53 21 35	0	...	G. S. J.	44·05	1 3 16		
,, 19	12 30	34·00	33·67	276 28 15	53 21 30	0	...	G. S. J.	41·50	1 0 28		
,, 26	12 31	33·97	33·67	276 31 45	53 21 35	5E	0·69	G. S. J.	44·50	1 3 48		
MAY 3	12 32	34·00	33·55	276 29 40	53 21 10	0	...	G. S. J.	43·25	1 2 20	42·13	1 1 37
,, 10	12 28	34·00	33·60	276 28 35	53 21 40	0	...	G. S. J.	41·05	1 0 43		
,, 17	12 30	33·97	33·59	276 29 35	53 21 25	0	...	G. S. J.	42·35	1 1 57		
,, 24	12 13	33·97	33·60	276 27 45	53 20 45	10W	0·70	G. S. J.	41·25	1 0 55		
,, 31	12 16	33·95	33·70	276 29 25	53 20 55	0	...	G. S. J.	42·75	1 2 9		
JUNE 7	12 19	34·05	33·52	276 29 0	53 20 35	0	...	G. S. J.	42·40	1 2 20	42·21	1 1 52
,, 14	12 14	34·00	33·65	276 29 0	53 21 5	0	...	G. S. J.	41·75	1 1 39		
,, 21	12 42	33·97	33·70	276 29 15	53 20 25	0	...	G. S. J.	42·85	1 2 30		
,, 28	12 44	34·05	33·57	276 29 20	53 22 15	0	...	G. S. J.	41·85	1 0 58		
JULY 5	12 38	34·05	33·35	276 29 30	53 21 45	0	...	G. S. J.	42·40	1 1 50	42·84	1 2 15
,, 12	12 21	33·97	33·67	276 29 20	53 21 0	0	...	G. S. J.	42·80	1 2 2		
,, 19	12 25	33·97	33·52	276 30 20	53 22 35	0	...	G. S. J.	42·05	1 1 35		
,, 26	12 42	33·90	33·65	276 32 50	53 22 55	0	...	G. S. J.	44·10	1 3 34		
AUG. 3	12 24	33·92	33·42	276 29 20	53 21 35	0	...	G. S. J.	42·45	1 1 39	42·44	1 1 57
,, 9	12 23	34·00	33·40	276 31 30	53 22 45	0	...	G. S. J.	43·25	1 2 44		
,, 16	12 39	33·97	33·50	276 32 5	53 23 5	0	...	G. S. J.	43·20	1 2 51		
,, 24	12 39	34·06	33·30	276 29 20	53 22 30	0	...	N.	41·15	1 0 59		
,, 30	12 33	34·00	33·45	276 29 35	53 22 0	0	...	N.	42·15	1 1 31		
SEPT. 6	12 27	34·04	33·32	276 29 10	53 23 10	0	...	N.	40·50	1 0 6	41·61	1 1 34
,, 13	12 15	34·05	33·20	276 29 20	53 21 20	0	...	N.	42·10	1 2 13		
,, 20	11 56	33·95	33·55	276 29 50	53 21 40	0	...	N.	42·15	1 1 58		
,, 28	12 18	33·95	33·60	276 31 20	53 23 0	10E	0·41	N.	41·70	1 1 59		
OCT. 4	12 33	34·07	33·47	276 28 30	53 21 30	0	...	G. S. J.	40·95	1 0 59	42·34	1 2 16
,, 11	12 20	33·95	33·70	276 31 45	53 23 30	15W	0·52	G. S. J.	42·00	1 2 4		
,, 19	12 48	34·00	33·46	276 31 20	53 22 40	0	...	G. S. J.	42·85	1 2 36		
,, 25	12 35	33·90	33·55	276 32 35	53 22 55	0	...	G. S. J.	43·55	1 3 24		
NOV. 1	12 32	34·02	33·07	276 30 55	53 23 10	0	...	G. S. J.	*64·90	1 2 4	65·72	1 3 20
,, 8	12 30	34·00	33·07	276 32 5	53 23 30	0	...	G. S. J.	65·20	1 2 53		
,, 15	12 28	34·05	32·95	276 31 55	53 23 10	0	...	G. S. J.	65·55	1 3 13		
,, 22	12 27	34·00	33·27	276 33 40	53 22 40	0	...	G. S. J.	67·60	1 5 6		
,, 29	12 31	34·05	33·07	276 31 50	53 22 45	0	...	G. S. J.	65·35	1 3 26		
DEC. 6	12 26	33·92	33·27	276 31 55	53 22 55	20W	0·61	G. S. J.	65·60	1 3 18	65·52	1 3 16
,, 13	12 49	34·07	33·12	276 32 5	53 22 45	0	...	G. S. J.	66·05	1 3 39		
,, 20	12 32	33·95	33·37	276 31 30	53 22 50	0	...	G. S. J.	64·70	1 2 38		
,, 27	12 49	34·05	33·35	276 32 15	53 22 50	0	...	G. S. J.	65·75	1 3 30		

The mean observed Declination for the year 1906 = 1° 3′ 2″

*. Readjustment of the Declination Magnetograph.

Absolute Magnetical Observations, Alibag—Table IIIa.

OBSERVATIONS OF INCLINATION, 1906.

Taken with Dip Circle No. 160 (Cambridge Scientific Instrument Co.) and two 3½-inch Needles Nos. 1 and 2 by Dover.

1906. Date.	Alibag Civil time (0 to 24 hours) At commencement.		At conclusion.		Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.		A. Face of Circle. West.		B. Face of Circle. East.		B. Face of Circle. West.		Mean Dip.		Monthly Mean for each Needle.		Monthly Mean.	
	H.	m.	H.	m.			′		′		°	′	°	′	°	′	°	′	°	′
JAN. 2	11	50	12	53	G. S. J.	1	23	4·2	23	8·4	22	55·7	23	4·0	23	3·1				
,, ,,	13	3	14	0	G. S. J.	2	23	1·4	23	9·7	22	59·1	23	6·4	23	4·1				
,, 5	14	6	15	10	G. S. J.	1	23	3·8	23	13·1	22	58·2	23	5·2	23	5·1				
,, ,,	15	20	16	17	G. S. J.	2	23	4·7	23	10·2	23	0·6	23	5·4	23	5·2				
,, 9	11	52	12	50	G. S. J.	1	23	1·1	23	8·9	22	57·2	23	3·2	23	2·6	No. 1			
,, ,,	13	2	13	58	G. S. J.	2	23	6·3	23	9·8	22	59·9	23	4·4	23	5·1	°	′		
,, 12	14	0	15	7	G. S. J.	1	23	7·4	23	9·6	22	59·7	23	2·6	23	4·8	23	3·7		
,, ,,	15	18	16	15	G. S. J.	2	23	4·0	23	10·1	22	59·7	23	6·9	23	5·2				
,, 16	11	54	12	52	G. S. J.	1	23	5·4	23	7·7	22	58·5	23	1·9	23	3·4			23	4·4
,, ,,	13	2	13	57	G. S. J.	2	23	4·2	23	12·9	22	58·6	23	5·1	23	5·2				
,, 19	13	55	14	52	G. S. J.	1	23	7·4	23	9·2	22	56·7	23	2·1	23	3·8				
,, ,,	15	2	15	58	G. S. J.	2	23	4·7	23	14·1	22	59·3	23	5·6	23	5·9	No. 2			
,, 23	11	55	12	52	G. S. J.	1	23	5·5	23	7·6	22	58·1	22	57·6	23	2·2	°	′		
,, ,,	13	2	14	0	G. S. J.	2	23	0·9	23	7·2	22	59·5	23	4·8	23	3·1	23	5·0		
,, 26	14	5	15	7	G. S. J.	1	23	7·4	23	11·3	22	59·7	23	4·1	23	5·6				
,, ,,	15	17	16	15	G. S. J.	2	23	3·7	23	10·4	23	0·5	23	8·2	23	5·7				
,, 30	11	56	12	54	G. S. J.	1	23	3·9	23	8·9	22	58·1	23	0·9	23	2·9				
,, ,,	13	3	14	0	G. S. J.	2	23	4·4	23	11·9	23	0·1	23	5·8	23	5·5				
FEB. 2	14	2	15	4	G. S. J.	1	23	3·3	23	9·5	22	59·4	23	5·4	23	4·4				
,, ,,	15	15	16	13	G. S. J.	2	23	5·6	23	14·9	23	0·9	23	6·4	23	6·9				
,, 6	11	47	12	50	G. S. J.	1	23	3·2	23	10·5	23	0·9	23	9·4	23	6·0				
,, ,,	13	0	13	55	G. S. J.	2	23	4·1	23	12·6	23	1·2	23	7·7	23	6·4	No. 1			
,, 9	14	0	15	2	G. S. J.	1	23	7·6	23	11·7	23	5·7	23	0·6	23	6·4	°	′		
,, ,,	15	13	16	13	G. S. J.	2	23	7·6	23	15·1	22	58·4	23	6·6	23	6·9	23	5·3		
,, 13	11	52	12	50	G. S. J.	1	22	55·5	23	6·8	22	59·6	23	9·9	23	2·9				
,, ,,	13	2	13	58	G. S. J.	2	23	4·9	23	11·2	22	58·6	23	5·9	23	5·1			23	6·1
,, 16	13	50	14	50	G. S. J.	1	23	2·2	23	14·5	22	59·1	23	11·4	23	6·8				
,, ,,	15	0	15	57	G. S. J.	2	23	8·0	23	15·5	22	59·4	23	7·9	23	7·7	No. 2			
,, 20	11	53	12	54	G. S. J.	1	23	1·4	23	10·6	22	59·7	23	10·1	23	5·4	°	′		
,, ,,	13	4	13	58	G. S. J.	2	23	6·6	23	14·4	23	0·9	23	10·6	23	8·1	23	6·8		
,, 23	14	4	15	6	G. S. J.	1	23	1·4	23	12·7	22	57·7	23	8·7	23	5·1				
,, ,,	15	16	16	14	G. S. J.	2	23	6·4	23	14·0	22	58·0	23	10·0	23	7·1				
,, 27	11	45	12	43	G. S. J.	1	23	0·6	23	14·2	22	58·2	23	9·8	23	5·7				
,, ,,	12	54	13	53	G. S. J.	2	23	4·1	23	11·1	23	1·6	23	8·0	23	6·2				
MAR. 2	14	18	15	16	G. S. J.	1	23	3·6	23	17·4	22	56·4	23	12·4	23	7·4				
,, ,,	15	25	16	20	G. S. J.	2	23	4·4	23	12·5	22	59·7	23	5·7	23	5·6				
,, 6	11	50	12	50	G. S. J.	1	23	1·4	23	13·9	22	55·1	23	10·0	23	5·1				
,, ,,	13	2	13	57	G. S. J.	2	23	5·6	23	13·1	23	1·0	23	5·8	23	6·4				
,, 9	13	54	14	51	G. S. J.	1	23	1·2	23	17·2	22	55·4	23	10·2	23	6·0	No. 1			
,, ,,	15	2	16	0	G. S. J.	2	23	5·1	23	11·0	23	4·7	23	9·2	23	7·5	°	′		
,, 13	11	52	12	53	G. S. J.	1	23	1·6	23	15·2	22	55·6	23	9·8	23	5·5	23	5·2		
,, ,,	13	3	14	0	G. S. J.	2	23	2·7	23	8·9	23	1·5	23	8·1	23	5·3				
,, 16	14	2	15	7	G. S. J.	1	23	1·4	23	15·9	22	54·6	23	9·7	23	5·4			23	5·8
,, ,,	15	18	16	16	G. S. J.	2	23	2·4	23	10·9	23	1·1	23	9·7	23	6·0				
,, 20	11	46	12	45	G. S. J.	1	22	58·6	23	14·7	22	49·8	23	6·5	23	2·4				
,, ,,	12	57	13	57	G. S. J.	2	23	5·4	23	12·7	22	54·1	23	6·1	23	4·6	No. 2			
,, 23	14	4	15	6	G. S. J.	1	23	3·8	23	18·2	22	54·7	23	11·4	23	7·0	°	′		
,, ,,	15	18	16	16	G. S. J.	2	23	7·9	23	17·4	22	59·7	23	8·5	23	8·4	23	6·4		
,, 27	11	32	12	34	G. S. J.	1	22	59·1	23	14·4	22	50·5	23	0·9	23	1·2				
,, ,,	12	45	13	43	G. S. J.	2	23	1·0	23	13·1	22	58·8	23	7·6	23	5·1				
,, 30	14	8	15	8	G. S. J.	1	23	1·5	23	17·5	22	56·1	23	10·6	23	6·4				
,, ,,	15	18	16	15	G. S. J.	2	23	7·2	23	15·2	23	1·3	23	11·4	23	8·8				
APR. 4	11	42	12	40	G. S. J.	1	22	55·9	23	10·5	22	51·9	23	4·9	23	0·8				
,, ,,	12	52	13	52	G. S. J.	2	23	7·4	23	9·2	23	1·5	23	3·1	23	5·3				
,, 6	14	18	15	20	G. S. J.	1	23	2·3	23	17·0	22	56·9	23	8·9	23	6·3				
,, ,,	15	31	16	30	G. S. J.	2	23	7·2	23	13·5	23	0·9	23	5·2	23	6·7	No. 1			
,, 10	11	44	12	45	G. S. J.	1	23	0·3	23	17·3	22	54·6	23	7·4	23	4·9	°	′		
,, ,,	12	55	13	54	G. S. J.	2	23	5·4	23	11·9	23	0·6	23	7·7	23	6·4	23	5·3		
,, 12	14	20	15	20	G. S. J.	1	23	3·2	23	18·1	22	56·5	23	9·7	23	6·9				
,, ,,	15	31	16	30	G. S. J.	2	23	9·1	23	12·9	23	2·6	23	6·6	23	7·8			23	5·9
,, 17	11	42	12	42	G. S. J.	1	23	0·9	23	17·0	22	53·2	23	6·4	23	4·4				
,, ,,	12	52	13	50	G. S. J.	2	23	6·1	23	11·5	22	59·9	23	7·1	23	6·1	No. 2			
,, 20	14	18	15	22	G. S. J.	1	23	0·2	23	17·0	22	59·1	23	9·6	23	6·5	°	′		
,, ,,	15	33	16	34	G. S. J.	2	23	5·9	23	12·0	23	0·2	23	7·6	23	6·4	23	6·6		
,, 24	11	52	12	53	G. S. J.	1	23	1·8	23	15·4	22	56·9	23	9·2	23	5·8				
,, ,,	13	4	14	0	G. S. J.	2	23	5·1	23	15·1	23	0·4	23	8·7	23	7·3				
,, 27	14	3	15	5	G. S. J.	1	23	3·2	23	16·8	22	58·9	23	7·6	23	6·6				
,, ,,	15	16	16	15	G. S. J.	2	23	3·8	23	15·0	22	59·1	23	10·1	23	7·0				

1906. Date.	Alibag Civil Time (0 to 24 hours). At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		′ ′
MAY 1	11 50	12 50	G. S. J.	1	23 3·7	23 16·0	22 54·7	23 6·4	23 5·2		
,, ,,	13 2	14 0	G. S. J.	2	23 5·8	23 11·6	22 59·3	23 5·6	23 5·6		
,, 4	14 0	15 4	G. S. J.	1	23 7·5	23 15·1	22 55·9	23 7·2	23 6·4		
,, ,,	15 16	16 16	G. S. J.	2	23 8·6	23 14·2	23 3·2	23 10·1	23 9·0		
,, 8	11 53	12 54	G. S. J.	1	23 6·0	23 17·9	22 55·2	23 9·3	23 7·1	No. 1	
,, ,,	13 5	14 0	G. S. J.	2	23 5·5	23 10·5	23 2·5	23 10·1	23 7·1		
,, 11	14 8	15 8	G. S. J.	1	23 3·7	23 14·7	22 56·0	23 9·4	23 5·9	° ′ 23 6·6	
,, ,,	15 18	16 16	G. S. J.	2	23 8·5	23 13·7	23 2·2	23 7·3	23 7·9		
,, 15	11 50	12 52	G. S. J.	1	23 3·6	23 19·4	22 56·0	23 12·7	23 7·9		
,, ,,	13 3	14 0	G. S. J.	2	23 6·8	23 14·5	23 0·4	23 10·0	23 7·9		23 7·3
,, 18	14 5	15 7	G. S. J.	1	23 4·2	23 20·2	22 56·9	23 13·6	23 8·7		
,, ,,	15 18	16 15	G. S. J.	2	23 8·9	23 15·2	23 1·4	23 11·1	23 9·1	No. 2	
,, 22	11 36	12 40	G. S. J.	1	23 1·0	23 14·4	22 54·7	23 13·4	23 5·9		
,, ,,	12 51	13 48	G. S. J.	2	23 5·9	23 17·1	22 59·3	23 11·4	23 8·4	° ′ 23 8·0	
,, 25	13 53	14 52	G. S. J.	1	23 4·4	23 17·3	22 57·6	23 11·4	23 7·7		
,, ,,	15 3	16 0	G. S. J.	2	23 8·6	23 17·6	23 2·5	23 10·7	23 9·8		
,, 29	11 38	12 40	G. S. J.	1	23 1·6	23 15·8	22 53·6	23 8·8	23 4·9		
,, ,,	12 52	13 50	G. S. J.	2	23 6·8	23 14·7	22 57·6	23 11·0	23 7·5		
JUNE 1	14 5	15 8	G. S. J.	1	23 2·9	23 19·9	22 54·4	23 10·7	23 7·0		
,, ,,	15 19	16 16	G. S. J.	2	23 7·9	23 16·1	22 58·2	23 10·6	23 8·2		
,, 5	11 50	12 50	G. S. J.	1	23 2·3	23 15·6	22 54·0	23 8·9	23 5·2		
,, ,,	13 0	13 57	G. S. J.	2	23 6·8	23 15·0	22 57·6	23 7·4	23 6·7		
,, 8	14 7	15 8	G. S. J.	1	23 2·8	23 17·2	22 52·5	23 11·1	23 5·9	No. 1	
,, ,,	15 18	16 16	G. S. J.	2	23 9·3	23 15·7	23 0·9	23 8·8	23 8·7		
,, 12	11 36	12 36	G. S. J.	1	23 0·1	23 16·5	22 54·1	23 11·4	23 5·5	° ′ 23 6·3	
,, ,,	12 47	13 44	G. S. J.	2	23 8·1	23 11·3	22 58·3	23 8·4	23 6·5		
,, 15	13 50	14 50	G. S. J.	1	23 1·7	23 17·2	22 54·9	23 11·3	23 6·3		
,, ,,	15 0	15 57	G. S. J.	2	23 7·9	23 12·1	23 1·1	23 8·9	23 7·5		23 7·1
,, 19	11 18	12 28	G. S. J.	1	23 2·4	23 18·1	22 55·2	23 12·8	23 7·1		
,, ,,	12 38	13 35	G. S. J.	2	23 7·4	23 13·2	23 0·2	23 11·9	23 8·2	No. 2	
,, 22	13 54	14 52	G. S. J.	1	23 3·2	23 15·4	22 55·2	23 10·2	23 6·0		
,, ,,	15 3	16 0	G. S. J.	2	23 6·9	23 14·2	22 59·7	23 10·1	23 7·7	° ′ 23 7·8	
,, 26	11 41	12 42	G. S. J.	1	23 7·0	23 11·1	22 58·2	23 6·7	23 5·7		
,, ,,	12 53	13 50	G. S. J.	2	23 7·3	23 12·2	23 1·5	23 9·4	23 7·6		
,, 30	13 48	14 48	G. S. J.	1	23 7·8	23 16·6	22 58·6	23 10·7	23 8·4		
,, ,,	14 58	15 55	G. S. J.	2	23 8·5	23 13·7	23 4·1	23 8·8	23 8·8		
JULY 3	11 43	12 42	G. S. J.	1	23 5·1	23 13·9	22 58·0	23 6·3	23 5·8		
,, ,,	12 52	13 50	G. S. J.	2	23 5·5	23 12·2	23 1·1	23 8·7	23 6·9		
,, 6	13 52	14 50	G. S. J.	1	23 8·2	23 18·1	22 59·5	23 10·2	23 9·0		
,, ,,	15 2	15 58	G. S. J.	2	23 11·1	23 14·0	23 4·7	23 8·9	23 9·7	No. 1	
,, 10	11 20	12 30	G. S. J.	1	23 3·5	23 14·5	22 52·2	23 5·9	23 4·0		
,, ,,	12 40	13 37	G. S. J.	2	23 6·2	23 9·7	22 59·4	23 7·0	23 5·6	° ′ 23 7·9	
,, 13	13 50	14 50	G. S. J.	1	23 8·3	23 18·8	22 59·1	23 11·0	23 9·3		
,, ,,	15 0	15 58	G. S. J.	2	23 7·1	23 14·0	23 0·4	23 8·2	23 7·4		23 8·0
,, 17	11 21	12 20	G. S. J.	1	23 4·1	23 13·5	22 55·4	23 9·6	23 5·6		
,, ,,	12 32	13 35	G. S. J.	2	23 10·9	23 13·5	23 2·9	23 6·6	23 8·5		
,, 20	14 4	15 6	G. S. J.	1	23 11·7	23 16·8	23 0·1	23 11·7	23 10·1	No. 2	
,, ,,	15 17	16 14	G. S. J.	2	23 7·6	23 13·6	23 4·1	23 9·2	23 8·6		
,, 24	11 25	12 35	G. S. J.	1	23 8·9	23 19·6	22 52·9	23 5·0	23 6·6	° ′ 23 8·1	
,, ,,	12 46	13 46	G. S. J.	2	23 6·1	23 11·6	23 3·9	23 8·6	23 7·5		
,, 27	14 7	15 9	G. S. J.	1	23 12·6	23 20·8	23 2·0	23 14·9	23 12·6		
,, ,,	15 19	16 15	G. S. J.	2	23 9·4	23 14·4	23 7·3	23 12·1	23 10·8		
AUG. 1	11 52	12 52	G. S. J.	1	23 10·9	23 16·9	22 59·7	23 11·6	23 9·8		
,, ,,	13 5	14 0	G. S. J.	2	23 7·1	23 12·3	23 3·9	23 9·1	23 8·1		
,, 3	14 18	15 20	G. S. J.	1	23 11·7	23 16·4	23 2·1	23 11·9	23 10·5		
,, ,,	15 30	16 28	G. S. J.	2	23 8·8	23 15·7	23 2·6	23 13·5	23 10·1		
,, 7	11 34	12 36	G. S. J.	1	23 10·4	23 16·1	22 56·9	23 6·4	23 7·4	No. 1	
,, ,,	12 49	13 45	G. S. J.	2	23 15·1	23 8·7	23 6·1	23 6·9	23 9·2		
,, 10	14 5	15 6	G. S. J.	1	23 11·6	23 18·7	22 59·3	23 11·7	23 10·3	° ′ 23 9·6	
,, ,,	15 17	16 15	G. S. J.	2	23 9·4	23 14·1	23 2·8	23 11·8	23 9·5		
,, 14	11 37	12 39	G. S. J.	1	23 11·8	23 17·2	22 58·7	23 11·1	23 9·7		
,, ,,	12 50	13 46	G. S. J.	2	23 7·3	23 15·0	23 3·2	23 10·8	23 9·1		23 9·7
,, 17	13 58	14 56	N.	1	23 10·0	23 14·0	23 11·7	23 3·4	23 9·8		
,, ,,	15 8	16 12	N.	2	23 19·2	23 7·2	23 12·2	23 1·1	23 9·9		
,, 21	10 51	12 18	N.	1	23 11·8	23 18·7	22 59·7	23 10·2	23 10·1	No 2	
,, ,,	12 29	13 28	N.	2	23 11·3	23 14·7	23 6·9	23 10·1	23 10·8		
,, 24	14 22	15 18	N.	1	23 12·7	23 19·4	22 59·6	23 9·0	23 10·2	° ′ 23 9·8	
,, ,,	15 29	16 25	N.	2	23 8·3	23 17·4	22 57·6	23 11·1	23 11·1		
,, 28	11 20	12 39	N.	1	23 10·4	23 18·6	22 57·6	23 11·6	23 9·5		
,, ,,	12 59	13 54	N.	2	23 9·9	23 15·8	23 3·7	23 10·7	23 10·0		
,, 31	14 1	14 58	N.	1	23 11·3	23 17·0	22 56·5	23 8·6	23 8·3		
,, ,,	15 10	16 22	N.	2	23 3·6	23 21·6	23 1·7	23 14·1	23 10·2		

1906. Date.	Alibag Civil Time (0 to 24 hours). At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		
Sep. 4	11 20	12 16	N.	1	23 7·9	23 16·5	22 58·7	23 10·0	23 8·3		
,, 7	12 28	13 35	N.	2	23 6·2	23 16·7	23 1·7	23 9·9	23 8·6		
,, 7	13 58	14 58	N.	1	23 9·0	23 15·9	23 0·9	23 9·1	23 8·7		
,, ,,	15 8	16 6	N.	2	23 8·4	23 14·0	23 5·7	23 12·7	23 10·2	No. 1	
,, 11	11 28	12 26	N.	1	23 10·1	23 19·6	22 55·2	23 12·7	23 9·4		
,, ,,	12 37	13 36	N.	2	23 2·9	23 15·7	22 57·1	23 13·5	23 7·3	23 9·1	
,, 14	14 0	14 57	N.	1	23 8·2	23 19·7	22 58·6	23 11·9	23 9·6		
,, ,,	15 9	16 6	N.	2	23 7·7	23 17·0	23 4·7	23 12·2	23 10·4		23 9·2
,, 18	11 16	12 12	N.	1	23 15·3	23 13·9	22 58·1	23 8·6	23 9·0		
,, ,,	12 24	13 25	N.	2	23 0·1	23 15·4	23 3·6	23 14·0	23 9·8	No. 2	
,, 21	14 20	15 17	N.	1	23 9·5	23 17·3	22 59·8	23 9·4	23 9·0		
,, ,,	15 28	16 24	N.	2	23 7·1	23 15·9	23 0·4	23 13·0	23 9·1	23 9·2	
,, 25	11 33	12 29	N.	1	23 9·4	23 16·7	23 0·5	23 9·2	23 8·9		
,, ,,	12 41	13 37	N.	2	23 5·2	23 17·0	23 0·7	23 12·1	23 8·7		
,, 28	14 22	15 19	N.	1	23 11·4	23 19·2	22 58·7	23 9·7	23 9·7		
,, ,,	15 30	16 26	N.	2	23 5·4	23 16·2	23 4·1	23 13·5	23 9·8		
Oct. 2	11 23	12 28	N.	1	23 16·4	23 24·6	22 56·1	23 1·6	23 9·7		
,, ,,	12 39	13 37	N.	2	23 6·1	23 16·1	23 2·4	23 13·1	23 9·4		
,, 5	14 20	15 18	G. S. J.	1	23 14·4	23 16·2	23 3·1	23 10·1	23 10·9		
,, ,,	15 30	16 28	G. S. J.	2	23 8·0	23 16·6	23 4·1	23 12·5	23 10·3		
,, 9	11 45	12 43	G. S. J.	1	23 8·4	23 15·6	23 0·0	23 7·6	23 7·9	No. 1	
,, 12	12 54	13 52	G. S. J.	2	23 5·7	23 16·6	23 2·4	23 11·2	23 9·0		
,, 12	13 58	14 58	G. S. J.	1	23 11·4	23 19·1	23 3·8	23 12·8	23 11·8	23 9·9	
,, ,,	15 8	16 2	G. S. J.	2	23 7·0	23 18·4	23 3·6	23 15·1	23 11·2		
,, 17	11 53	12 53	G. S. J.	1	23 7·7	23 17·1	23 0·0	23 8·4	23 8·3		
,, ,,	13 4	14 0	G. S. J.	2	23 6·9	23 17·3	23 1·1	23 12·3	23 9·4		23 10·1
,, 19	14 20	15 20	G. S. J.	1	23 12·6	23 20·7	23 2·6	23 11·9	23 11·9		
,, ,,	15 31	16 30	G. S. J.	2	23 8·4	23 20·2	23 3·6	23 15·1	23 11·8	No. 2	
,, 23	11 46	12 46	G. S. J.	1	23 9·1	23 16·6	22 58·3	23 12·3	23 9·1		
,, ,,	12 57	13 53	G. S. J.	2	23 7·6	23 17·8	23 2·1	23 13·8	23 10·3	23 10·3	
,, 26	13 53	14 50	G. S. J.	1	23 10·4	23 18·3	23 1·2	23 9·2	23 9·8		
,, ,,	15 0	15 55	G. S. J.	2	23 9·9	23 17·1	23 5·4	23 11·7	23 11·0		
,, 30	11 38	12 41	G. S. J.	1	23 9·4	23 15·7	23 2·4	23 10·0	23 9·4		
,, ,,	12 52	13 45	G. S. J.	2	23 9·4	23 18·6	23 1·7	23 11·4	23 10·3		
Nov. 2	13 54	14 50	G. S. J.	1	23 11·8	23 18·4	23 1·6	23 8·7	23 10·1		
,, ,,	15 2	15 57	G. S. J.	2	23 10·2	23 17·5	23 4·1	23 11·9	23 10·9		
,, 6	11 43	12 43	G. S. J.	1	23 8·6	23 16·4	22 59·5	23 9·2	23 8·4		
,, ,,	12 54	13 48	G. S. J.	2	23 7·7	23 17·7	23 3·4	23 12·2	23 10·2		
,, 9	14 5	15 5	G. S. J.	1	23 9·7	23 18·6	23 2·6	23 13·4	23 11·1	No. 1	
,, ,,	15 16	16 14	G. S. J.	2	23 8·2	23 18·3	23 4·7	23 15·2	23 11·6		
,, 13	11 54	12 52	G. S. J.	1	23 10·4	23 19·1	23 1·3	23 11·5	23 10·6	23 10·6	
,, ,,	13 2	13 56	G. S. J.	2	23 8·7	23 17·7	23 4·7	23 14·4	23 11·4		
,, 16	14 6	15 5	G. S. J.	1	23 10·1	23 17·6	23 2·3	23 12·1	23 10·5		
,, ,,	15 16	16 15	G. S. J.	2	23 8·6	23 17·6	23 4·3	23 14·1	23 11·1		23 10·7
,, 20	11 50	12 50	G. S. J.	1	23 8·9	23 18·3	23 1·1	23 11·4	23 9·9		
,, ,,	13 0	13 55	G. S. J.	2	23 7·8	23 18·1	23 2·6	23 12·1	23 10·1	No. 2	
,, 23	14 4	15 5	G. S. J.	1	23 12·6	23 22·0	23 3·4	23 13·1	23 12·8		
,, ,,	15 15	16 13	G. S. J.	2	23 9·1	23 17·9	23 3·4	23 13·6	23 11·0	23 10·9	
,, 27	11 35	12 36	G. S. J.	1	23 9·6	23 18·2	23 3·0	23 14·3	23 11·3		
,, ,,	12 48	13 45	G. S. J.	2	23 8·5	23 20·1	23 2·9	23 13·7	23 11·3		
,, 30	13 53	14 52	G. S. J.	1	23 9·0	23 18·6	23 1·4	23 12·1	23 10·3		
,, ,,	15 3	15 58	G. S. J.	2	23 6·4	23 18·6	23 2·7	23 14·0	23 10·4		
Dec. 4	11 57	12 54	G. S. J.	1	23 8·4	23 18·1	23 0·7	23 12·4	23 9·9		
,, 4	13 4	14 0	G. S. J.	2	23 7·7	23 19·3	23 2·3	23 13·9	23 10·8		
,, 7	14 4	15 6	G. S. J.	1	23 10·8	23 20·1	23 2·4	23 13·7	23 11·7		
,, ,,	15 16	16 12	G. S. J.	2	23 8·2	23 18·0	23 3·3	23 13·5	23 10·7	No. 1	
,, 11	11 42	12 40	G. S. J.	1	23 10·3	23 19·7	23 2·0	23 13·5	23 11·4		
,, ,,	12 52	13 50	G. S. J.	2	23 8·8	23 16·1	23 3·4	23 13·9	23 10·5	23 11·0	
,, 14	14 18	15 20	G. S. J.	1	23 9·6	23 20·6	23 3·4	23 13·8	23 11·8		
,, ,,	15 31	16 28	G. S. J.	2	23 6·8	23 18·9	23 2·2	23 14·6	23 10·6		23 11·0
,, 18	11 48	12 48	G. S. J.	1	23 11·4	23 20·5	23 1·9	23 14·2	23 12·0		
,, ,,	13 0	13 55	G. S. J.	2	23 10·1	23 18·8	23 3·5	23 13·2	23 11·4		
,, 21	13 52	14 53	G. S. J.	1	23 10·2	23 20·4	23 2·1	23 12·9	23 11·4	No. 2	
,, ,,	15 5	16 0	G. S. J.	2	23 9·9	23 19·7	23 4·2	23 14·5	23 12·1		
,, 25	11 46	12 46	G. S. J.	1	23 8·1	23 18·7	22 59·6	23 12·4	23 9·7	23 10·9	
,, ,,	12 57	13 52	G. S. J.	2	23 6·5	23 18·3	23 2·9	23 14·9	23 10·6		
,, 28	13 51	14 50	G. S. J.	1	23 7·7	23 19·0	23 0·9	23 11·9	23 9·9		
,, ,,	15 0	15 57	G. S. J.	2	23 7·2	23 18·1	23 3·1	23 15·0	23 10·8		

The mean Dip for the year ... { With Needle No. 1 = 23 7·5 ; With Needle No. 2 = 23 8·3 }

The mean* observed Dip for the year 1906 = 23 7·9

* The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table IIIb.

SUPPLEMENTARY OBSERVATIONS OF INCLINATION, 1906.

Taken with Dip Circle No. 160 (Cambridge Scientific Instrument Co.) and two Supplementary 3½-inch Needles Nos. 1 and 2 (Dover C.).

1906. Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		° ′
JAN. 6	11 44	12 42	G. S. J.	2	23 8·6	23 4·2	23 7·1	23 1·6	23 5·4	No. 1	
,, 13	11 47	12 45	G. S. J.	1	22 49·4	22 59·7	23 7·1	23 16·6	23 3·2	23 4·1	23 4·6
,, 20	11 40	12 37	G. S. J.	2	23 8·7	23 2·7	23 7·4	23 0·2	23 4·7	No. 2	
,, 27	11 43	12 42	G. S. J.	1	22 54·7	23 0·7	23 8·7	23 16·0	23 5·0	23 5·0	
FEB. 3	11 45	12 42	G. S. J.	2	23 8·9	23 5·7	23 5·4	22 58·5	23 4·6	No. 1	
,, 10	11 46	12 42	G. S. J.	1	22 53·9	23 2·1	23 9·1	23 17·0	23 5·5	23 4·9	23 5·0
,, 17	11 44	12 43	G. S. J.	2	23 9·6	23 3·2	23 5·6	23 4·7	23 5·8	No. 2	
,, 24	11 38	12 38	G. S. J.	1	22 50·8	23 0·1	23 9·4	23 17·0	23 4·3	23 5·2	
MAR. 3	11 52	12 48	G. S. J.	2	23 4·8	23 2·2	23 2·4	23 4·0	23 3·3		
,, 10	11 55	12 52	G. S. J.	1	22 53·7	23 0·6	23 12·1	23 18·9	23 6·3	No. 1	
,, 17	11 45	12 42	G. S. J.	2	23 3·9	23 5·7	23 1·0	23 2·4	23 3·2	23 5·4	23 4·1
,, 24	11 35	12 32	G. S. J.	1	22 51·8	23 0·6	23 10·5	23 15·2	23 4·5	No. 2	
,, 31	11 43	12 40	G. S. J.	2	23 2·6	23 4·7	23 1·6	23 4·7	23 3·4	23 3·3	
APRIL 7	11 47	12 45	G. S. J.	1	22 53·5	22 58·1	23 9·6	23 15·5	23 4·2	No. 1	
,, 14	12 0	12 54	G. S. J.	2	23 4·4	23 4·2	23 1·6	23 4·7	23 3·7	23 4·4	23 4·2
,, 21	11 51	12 50	G. S. J.	1	22 52·0	22 59·3	23 8·7	23 18·5	23 4·6	No. 2	
,, 28	11 47	12 45	G. S. J.	2	23 0·5	23 8·7	23 4·9	23 2·6	23 4·2	23 3·9	
MAY 5	11 28	12 28	G. S. J.	1	22 53·4	22 59·0	23 13·6	23 15·9	23 5·5	No. 1	
,, 12	11 42	12 42	G. S. J.	2	23 0·9	23 8·0	23 1·7	23 6·4	23 4·2	23 6·2	23 5·7
,, 19	11 46	12 44	G. S. J.	1	22 58·2	23 2·0	23 9·7	23 18·3	23 7·0	No. 2	
,, 26	11 50	12 53	G. S. J.	2	23 5·1	23 9·6	23 3·2	23 7·2	23 6·3	23 5·2	
JUNE 2	11 53	12 48	G. S. J.	1	22 57·6	23 7·4	23 12·0	23 22·3	23 9·8	No. 1	
,, 9	11 48	12 45	G. S. J.	2	23 9·9	23 7·9	23 6·1	23 5·6	23 7·4	23 7·7	
,, 16	11 8	12 4	G. S. J.	1	22 52·3	23 5·8	23 6·1	23 21·2	23 6·3		23 7·2
,, 23	11 37	12 35	G. S. J.	2	23 5·4	23 5·1	23 6·1	23 5·0	23 5·4	No. 2	
,, 30	11 2	12 2	G. S. J.	1	22 54·6	23 3·3	23 10·3	23 19·4	23 6·9	23 6·4	
JULY 7	11 34	12 32	G. S. J.	2	23 4·4	23 9·1	23 3·6	23 8·9	23 6·5	No. 1	
,, 14	11 27	12 33	G. S. J.	1	22 53·7	23 5·3	23 6·7	23 21·1	23 6·7	23 7·3	23 6·7
,, 21	11 30	12 30	G. S. J.	2	23 1·6	23 8·2	23 4·2	23 8·9	23 5·7	No. 2	
,, 28	11 36	12 40	G. S. J.	1	22 55·9	23 6·2	23 10·9	23 18·8	23 7·9	23 6·1	

1906. Date.		Alibag Civil Time (0 to 24 hours) At commencement		At conclusion.		Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.		A. Face of Circle. West.		B. Face of Circle. East.		B. Face of Circle. West.		Mean Dip.		Monthly Mean for each Needle.		Monthly Mean.	
		H.	m.	H.	m.			°	′	°	′	°	′	′	°	′				°	′
Aug.	4	11	30	12	36	G. S. J.	2	23	7·4	23	11·4	23	4·9	23	11·2	23	8·7	No. 1			
,,	11	11	47	12	45	G. S. J.	1	22	58·4	23	6·5	23	12·6	23	17·1	23	8·6	° 23	′ 8·1	23	8·5
,,	18	11	45	12	44	N.	2	23	9·1	23	11·7	23	4·8	23	10·1	23	8·9	No. 2			
,,	25	11	8	12	6	N.	1	22	49·9	23	10·7	23	6·3	23	23·9	23	7·7	° 23	′ 8·8		
Sept.	1	11	24	12	22	N.	2	23	5·9	23	9·4	23	7·1	23	8·0	23	7·6	No. 1			
,,	8	11	25	12	35	N.	1	22	55·6	23	4·4	23	11·6	23	16·6	23	7·0	° 23	′ 7·9		
,,	15	11	15	12	35	N.	2	23	4·6	23	10·2	23	3·1	23	12·9	23	7·7	No. 2		23	7·7
,,	22	11	43	12	40	N.	1	22	55·4	23	6·4	23	10·1	23	23·7	23	8·9	° 23	′ 7·6		
,,	29	11	15	12	13	N.	2	23	3·9	23	7·1	23	8·0	23	10·7	23	7·4				
Oct.	6	11	40	12	35	G. S. J.	1	22	53·6	23	5·1	23	9·6	23	20·0	23	7·1	No. 1			
,,	13	11	42	12	36	G. S. J.	2	23	8·2	23	11·1	23	5·1	23	10·4	23	8·7	° 23	′ 8·3	23	8·6
,,	20	11	43	12	38	G. S. J.	1	22	57·1	23	6·0	23	13·0	23	22·2	23	9·6	No. 2			
,,	27	11	52	12	48	G. S. J.	2	23	9·1	23	11·4	23	6·7	23	8·6	23	8·9	° 23	′ 8·8		
Nov.	3	11	42	12	37	G. S. J.	1	22	55·7	23	6·6	23	12·7	23	23·1	23	9·5	No. 1			
,,	10	11	7	12	10	G. S. J.	2	23	9·1	23	11·1	23	7·0	23	9·4	23	9·1	° 23	′ 9·5		
,,	17	11	45	12	43	G. S. J.	1	22	56·9	23	6·3	23	14·0	23	21·4	23	9·6	No. 2		23	9·4
,,	24	11	40	12	40	G. S. J.	2	23	7·6	23	13·6	23	5·6	23	10·9	23	9·4	° 23	′ 9·2		
Dec.	1	11	42	12	40	G. S. J.	1	22	56·4	23	8·0	23	12·1	23	23·9	23	10·1	No. 1			
,,	8	11	40	12	45	G. S. J.	2	23	8·8	23	10·1	23	7·6	23	10·2	23	9·2	° 23	′ 10·5		
,,	15	11	46	12	42	G. S. J.	1	22	56·6	23	8·7	23	13·2	23	25·9	23	11·1	No. 2		23	10·4
,,	22	11	43	12	38	G. S. J.	2	23	10·4	23	13·3	23	9·2	23	12·9	23	11·4	° 23	′ 10·3		
,,	29	12	5	12	58	G. S. J.	1	22	56·1	23	6·4	23	14·1	23	24·6	23	10·3				

The mean Dip for the year ... { With Needle No. 1 = ° 23 ′ 7·0 ; With Needle No. 2 = 23 6·6 }

The mean observed Dip for the year 1906 = ° 23 ′ 6·8

Absolute Magnetical Observations, Alibag—Table Ia.

Observations of Vibration and Deflection, taken with Magnetometer No 7 (T. Cooke and Sons), for the determination of Absolute Horizontal Force.

1907.

1907.		Vibration Magnet.				Corresponding Mean Reading of H. F. Magnetograph.		Angle of Deflection of Magnet marked 7.			Corresponding Mean Reading of H. F. Magnetograph.			Calculated Results in C. G. S. Unit.				
								Distance.						Values of m.	Values of H.			
Date.	Civil Time, Mean.	Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Scale Reading.	Thermometer.	22·5 cms.	30·0 cms.	Temperature.	Scale Reading.	Thermometer.	Observer.		From Deflection at distance.		Difference.	Mean.	Observed Monthly Mean Values of H.
															22·5 cms ($H_{22\cdot5}$).	30·0 cms ($H_{30\cdot0}$).	$H_{22\cdot5} - H_{30\cdot0}$	$\frac{H_{22\cdot5} + H_{30\cdot0}}{2}$	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	mm.	°	° ′ ″	° ′ ″	°	mm.	°							
JAN. 2	12 14	2·7057	1·41	28·9	− 2·9	84·0	85·8	26 38 15	10 50 2	28·9	82·0	85·8	G. S. J.	939·59	0·36888	0·36890	− ·00002	0·36889	
„ „	15 6	2·7070	1·41	28·9	„	77·3	85·8	26 38 37	10 50 17	29·0	79·1	85·8	G. S. J.	939·31	·36866	·36864	+ ·00002	·36865	
„ 9	12 23	2·7049	1·42	26·0	− 2·6	75·6	85·2	26 42 31	10 51 46	25·9	72·9	85·2	G. S. J.	939·74	·36856	·36854	+ ·00002	·36855	
„ „	15 9	2·7058	1·41	26·1	„	73·5	85·2	26 42 10	10 51 36	26·2	73·4	85·2	G. S. J.	939·40	·36845	·36844	+ ·00001	·36844	
„ 17	12 25	2·7043	1·43	26·2	− 2·8	82·9	84·9	26 40 6	10 50 54	26·2	81·4	84·9	G. S. J.	939·42	·36889	·36886	+ ·00003	·36887	·368755
„ „	14 51	2·7053	1·42	26·8	„	74·0	84·9	26 40 31	10 51 3	26·5	77·5	84·9	G. S. J.	939·31	·36871	·36867	+ ·00004	·36869	
„ 24	12 36	2·7036	1·37	25·9	− 2·6	80·9	84·2	26 40 21	10 50 55	25·8	81·2	84·2	G. S. J.	939·55	·36898	·36897	+ ·00001	·36897	
„ „	14 53	2·7053	1·40	26·3	„	74·4	84·2	26 40 36	10 51 1	26·1	79·1	84·2	G. S. J.	939·16	·36871	·36870	+ ·00001	·36870	
„ 30	12 20	2·7037	1·38	26·3	− 3·0	84·8	84·1	26 39 46	10 50 35	26·0	83·8	84·1	G. S. J.	939·42	·36902	·36905	− ·00003	·36903	
„ „	15 15	2·7047	1·42	26·1	„	77·0	84·1	26 40 15	10 50 55	26·5	78·8	84·1	G. S. J.	939·33	·36877	·36875	+ ·00002	·36876	
FEB. 6	12 35	2·7030	1·41	26·0	− 2·9	86·9	83·7	26 38 56	10 50 20	25·9	87·0	83·7	G. S. J.	939·40	·36920	·36919	+ ·00001	·36919	
„ „	14 54	2·7043	1·42	26·3	„	80·0	83·7	26 39 32	10 50 36	26·2	82·3	83·7	G. S. J.	939·27	·36896	·36895	+ ·00001	·36895	
„ 13	12 19	2·7042	1·40	25·9	− 2·0	72·7	83·5	26 42 23	10 51 44	25·8	69·8	83·5	G. S. J.	939·90	·36867	·36865	+ ·00002	·36866	
„ „	14 56	2·7068	1·40	26·3	„	62·5	83·5	26 43 21	10 52 2	26·1	63·5	83·5	G. S. J.	939·40	·36822	·36821	+ ·00001	·36821	
„ 20	12 24	2·7050	1·41	25·9	− 2·0	70·5	83·9	26 41 50	10 51 32	26·0	69·6	83·9	G. S. J.	939·53	·36860	·36858	+ ·00002	·36859	·368763
„ „	15 12	2·7060	1·41	26·8	„	68·0	83·8	26 41 33	10 51 20	26·6	69·4	83·8	G. S. J.	939·40	·36852	·36852	·00000	·36852	
„ 27	12 21	2·7044	1·41	28·0	− 1·9	82·2	84·0	26 37 36	10 49 52	28·0	80·3	84·0	G. S. J.	939·49	·36914	·36913	+ ·00001	·36913	
„ „	15 13	2·7059	1·39	28·8	„	72·3	84·0	26 38 15	10 50 10	28·5	74·9	84·0	G. S. J.	939·49	·36888	·36886	+ ·00002	·36887	
MAR. 6	12 15	2·7038	1·41	27·5	− 1·9	81·5	84·7	26 38 48	10 50 18	27·0	78·2	84·7	G. S. J.	939·68	·36914	·36913	+ ·00001	·36913	
„ „	15 16	2·7056	1·41	27·1	„	69·5	84·7	26 39 36	10 50 40	27·6	72·4	84·7	G. S. J.	939·33	·36871	·36870	+ ·00001	·36870	
„ 13	12 47	2·7048	1·41	26·6	− 1·9	72·0	85·0	26 40 35	10 50 57	26·7	70·1	85·0	G. S. J.	939·53	·36876	·36876	·00000	·36876	
„ „	14 56	2·7062	1·41	27·2	„	63·0	85·0	26 41 12	10 51 19	27·0	64·9	85·0	G. S. J.	939·46	·36853	·36849	+ ·00004	·36851	
„ 20	12 2	2·7049	1·40	27·4	− 1·9	73·7	85·2	26 39 31	10 50 37	27·3	71·1	85·2	G. S. J.	939·57	·36888	·36886	+ ·00002	·36887	·368712
„ „	15 15	2·7072	1·38	28·0	„	60·5	85·2	26 40 59	10 51 11	27·8	62·4	85·2	G. S. J.	939·42	·36841	·36839	+ ·00002	·36840	
„ 27	12 16	2·7062	1·40	28·9	− 1·8	69·8	86·0	26 38 56	10 50 22	28·6	67·0	86·0	G. S. J.	939·57	·36877	·36877	·00000	·36877	
„ „	15 15	2·7071	1·40	28·8	„	61·9	86·0	26 39 12	10 50 36	28·9	63·3	86·0	G. S. J.	939·44	·36859	·36854	+ ·00005	·36856	

April	3	12	11	2·7050	1·35	30·4	− 1·8	81·2	87·0	26	33	57	10	48	30	30·3	80·3	87·0	G. S. J.	939·36	·36944	·36942	+ ·00002	·36943	
,,	,,	15	12	2·7067	1·41	30·3	,,	71·1	87·0	26	34	55	10	48	49	30·9	74·4	87·0	G. S. J.	939·12	·36904	·36904	·00000	·36904	
,,	10	12	20	2·7062	1·41	30·9	− 1·7	75·9	88·0	26	34	26	10	48	42	30·9	74·4	88·0	G. S. J.	939·33	·36922	·36919	+ ·00003	·36920	
,,	,,	15	6	2·7075	1·39	30·7	,,	65·8	88·0	26	35	52	10	49	11	31·0	67·8	88·0	G. S. J.	939·23	·36886	·36890	− ·00030	·36886	
,,	17	12	21	2·7069	1·41	30·1	− 1·9	63·0	88·7	26	38	17	10	50	4	29·4	61·1	88·7	G. S. J.	939·50	·36877	·36878	− ·00031	·36877	·368976
,,	,,	15	11	2·7071	1·40	28·9	,,	57·8	88·7	26	38	42	10	50	18	29·7	59·2	88·7	G. S. J.	939·46	·36858	·36856	+ ·00002	·36857	
,,	25	12	22	2·7064	1·38	31·1	− 1·8	69·6	89·2	26	35	4	10	48	57	30·9	67·7	89·2	G. S. J.	939·49	·36914	·36912	+ ·00002	·36913	
,,	,,	15	16	2·7073	1·40	30·1	,,	61·6	89·2	26	36	2	10	49	16	31·0	63·1	89·2	G. S. J.	939·20	·36882	·36881	+ ·00001	·36881	
May	1	12	25	2·7054	1·38	29·9	− 1·7	70·2	89·7	26	35	46	10	49	9	29·7	68·2	89·7	G. S. J.	939·40	·36921	·36920	+ ·00001	·36920	
,,	,,	15	12	2·7071	1·37	30·0	,,	60·5	89·7	26	36	43	10	49	30	30·0	62·4	89·7	G. S. J.	939·25	·36885	·36886	− ·00001	·36886	
,,	8	12	28	2·7061	1·39	30·6	− 1·7	64·6	90·1	26	35	23	10	49	5	30·6	63·4	90·1	G. S. J.	939·51	·36914	·36911	+ ·00003	·36912	
,,	,,	15	14	2·7079	1·40	30·9	,,	57·3	90·1	26	36	18	10	49	26	30·8	58·5	90·1	G. S. J.	939·25	·36880	·36877	+ ·00003	·36878	
,,	15	12	53	2·7085	1·40	30·9	− 1·7	52·6	90·5	26	37	22	10	49	48	30·9	50·6	90·5	G. S. J.	939·33	·36859	·36857	+ ·00002	·36858	·368737
,,	,,	14	56	2·7089	1·40	31·1	,,	48·7	90·5	26	37	28	10	49	52	31·0	49·5	90·5	G. S. J.	939·31	·36854	·36851	+ ·00003	·36852	
,,	22	12	12	2·7078	1·40	31·2	− 1·4	54·0	91·0	26	37	2	10	49	36	30·9	51·7	91·0	G. S. J.	939·51	·36875	·36875	·00000	·36875	
,,	,,	15	15	2·7088	1·40	31·0	,,	47·8	91·1	26	37	5	10	49	41	31·3	49·2	91·0	G. S. J.	939·27	·36855	·36851	+ ·00001	·36854	
,,	29	12	16	2·7082	1·39	31·8	− 1·5	53·6	91·8	26	35	59	10	49	14	31·4	52·7	91·8	G. S. J.	939·36	·36882	·36881	+ ·00001	·36881	
,,	,,	15	14	2·7111	1·42	31·9	,,	37·6	91·8	26	37	30	10	49	47	31·9	42·4	91·8	G. S. J.	938·88	·36821	·36821	·00000	·36821	
June	5	12	26	2·7059	1·38	30·0	− 1·6	55·7	92·2	26	36	20	10	49	20	30·2	54·2	92·2	G. S. J.	939·57	·36905	·36905	·00000	·36905	
,,	,,	15	14	2·7078	1·40	30·7	,,	48·5	92·2	26	36	37	10	49	29	30·9	49·9	92·2	G. S. J.	939·31	·36875	·36874	·00001	·36874	
,,	12	12	21	2·7070	1·37	30·5	− 1·4	53·7	92·8	26	35	55	10	49	16	30·2	53·7	92·8	G. S. J.	939·20	·36898	·36895	+ ·00003	·36896	
,,	,,	14	49	2·7081	1·40	30·4	,,	45·1	92·8	26	36	30	10	49	25	30·5	49·5	92·8	G. S. J.	939·01	·36873	·36873	·00000	·36873	
,,	19	12	6	2·7043	1·42	27·4	− 1·6	57·8	91·4	26	37	30	10	49	51	27·9	57·4	91·4	G. S. J.	939·36	·36912	·36911	+ ·00001	·36911	·368917
,,	,,	15	14	2·7054	1·40	28·1	,,	51·5	91·2	26	37	22	10	49	47	27·8	50·2	91·2	G. S. J.	939·07	·36905	·36904	+ ·00001	·36904	
,,	26	12	23	2·7057	1·39	28·8	− 1·5	54·2	90·1	26	36	56	10	49	37	29·0	51·1	90·1	G. S. J.	939·27	·36901	·36899	+ ·00002	·36900	
,,	,,	15	12	2·7070	1·41	29·0	,,	44·6	90·1	26	38	20	10	49	57	29·1	47·4	90·1	G. S. J.	939·18	·36869	·36873	− ·00004	·36871	
July	3	12	30	2·7047	1·39	28·1	− 1·8	50·8	89·8	26	38	44	10	50	15	27·8	49·5	89·8	G. S. J.	939·66	·36899	·36900	− ·00001	·36899	
,,	,,	14	57	2·7072	1·40	28·0	,,	40·3	89·9	26	39	26	10	50	26	28·1	43·8	89·9	G. S. J.	939·01	·36855	·36858	− ·00003	·36856	
,,	10	12	13	2·7077	1·38	31·1	− 1·3	49·3	89·9	26	35	48	10	49	12	30·9	50·4	89·9	G. S. J.	939·23	·36888	·36887	+ ·00001	·36887	
,,	,,	15	13	2·7085	1·38	31·4	,,	43·7	89·9	26	36	11	10	49	17	31·3	45·7	89·9	G. S. J.	939·20	·36873	·36872	+ ·00001	·36872	
,,	17	12	11	2·7049	1·40	28·3	− 2·1	49·8	90·0	26	37	22	10	49	44	28·5	49·3	90·0	G. S. J.	939·42	·36937	·36907	·00030	·36907	
,,	,,	15	11	2·7054	1·40	27·8	,,	45·1	89·9	26	38	23	10	50	7	28·0	47·1	89·9	G. S. J.	939·31	·36890	·36891	− ·00001	·36890	·368856
,,	24	12	17	2·7044	1·39	26·6	− 1·5	50·2	88·1	26	38	58	10	50	26	26·9	48·7	88·1	G. S. J.	939·31	·36897	·36895	+ ·00002	·36896	
,,	,,	15	12	2·7064	1·40	27·0	,,	41·2	88·1	26	40	5	10	50	52	26·9	43·1	88·1	G. S. J.	939·03	·36861	·36859	+ ·00002	·36860	
,,	31	12	1	2·7051	1·38	27·8	− 2·1	52·9	86·6	26	37	25	10	49	51	27·8	53·5	86·6	G. S. J.	939·16	·36906	·36904	+ ·00002	·36905	
,,	,,	15	10	2·7059	1·38	27·9	,,	46·4	86·6	26	38	41	10	50	12	27·7	49·9	86·6	G. S. J.	939·14	·36883	·36885	− ·00002	·36884	
Aug	7	12	17	2·7050	1·38	27·9	− 2·0	49·1	86·0	26	38	27	10	50	5	28·0	48·6	86·0	G. S. J.	939·44	·36895	·36898	− ·00003	·36896	
,,	,,	15	12	2·7062	1·40	28·0	,,	43·0	86·0	26	39	7	10	50	24	28·0	44·7	86·0	G. S. J.	939·27	·36873	·36874	− ·00001	·36873	
,,	14	12	20	2·7033	1·39	26·4	− 2·3	52·1	85·4	26	39	22	10	50	22	26·5	50·1	85·4	G. S. J.	939·62	·36910	·36914	− ·00004	·36912	
,,	,,	15	12	2·7053	1·39	26·5	,,	44·0	85·3	26	39	52	10	50	42	26·5	45·9	85·4	G. S. J.	939·10	·36877	·36877	·00000	·36877	
,,	21	12	13	2·7063	1·40	28·0	− 2·4	37·5	85·0	26	40	34	10	51	0	28·0	39·1	85·0	G. S. J.	939·64	·36856	·36855	+ ·00001	·36855	·368787
,,	,,	15	10	2·7083	1·38	27·9	,,	29·6	85·0	26	41	55	10	51	25	28·0	31·3	85·0	G. S. J.	939·25	·36814	·36815	− ·00001	·36814	
,,	28	12	9	2·7046	1·40	27·9	− 3·0	50·6	85·0	26	37	32	10	49	47	28·0	51·2	85·0	G. S. J.	939·33	·36911	·36911	·00000	·36911	
,,	,,	15	14	2·7062	1·38	28·6	,,	44·2	85·0	26	37	41	10	49	45	28·3	47·9	85·0	G. S. J.	939·03	·36890	·36894	− ·00004	·36892	
Sept.	4	12	21	2·7053	1·38	28·9	− 2·9	* 90·2	85·8	26	37	57	10	49	55	28·1	* 96·1	85·8	G. S. J.	939·46	·36904	·36905	− ·00001	·36904	
,,	,,	15	10	2·7068	1·40	28·9	,,	89·6	85·8	26	38	21	10	50	6	28·9	90·1	85·8	G. S. J.	939·25	·36872	·36873	− ·00001	·36872	
,,	11	12	28	2·7066	1·40	28·5	− 2·5	87·1	86·2	26	39	38	10	50	40	28·5	83·6	86·2	G. S. J.	939·53	·36861	·36860	+ ·00001	·36860	
,,	,,	14	53	2·7088	1·39	28·9	,,	73·6	86·2	26	40	45	10	51	2	28·8	77·4	86·2	G. S. J.	939·18	·36821	·36821	·00000	·36821	
,,	18	12	11	2·7074	1·39	29·4	− 2·5	85·5	86·9	26	38	17	10	50	2	29·1	86·3	86·9	G. S. J.	939·18	·36868	·36870	− ·00002	·36869	·368736
,,	,,	15	11	2·7081	1·39	29·5	,,	79·7	86·9	26	39	21	10	50	30	29·7	79·5	86·9	G. S. J.	939·42	·36843	·36843	·00000	·36843	
,,	25	12	5	2·7050	1·37	29·4	− 2·4	95·8	87·9	26	36	1	10	49	9	29·3	94·8	87·9	G. S. J.	939·42	·36922	·36925	− ·00003	·36923	
,,	,,	15	9	2·7062	1·39	29·3	,,	86·4	87·9	26	36	32	10	49	22	29·7	91·1	87·9	G. S. J.	939·23	·36896	·36898	− ·00002	·36897	

* H. F. Magnetograph was readjusted on 1st September.

1907.	Vibration Magnet.					Corresponding Mean Reading of H. F. Magnetograph.		Angle of Deflection of Magnet marked 7.			Corresponding Mean Reading of H. F. Magnetograph.		Observer.	Values of m.	Calculated Results in C. G. S. Unit.				
					Rate of Chrono-meter.			Distance.							Values of H.				
Date.	Civil Time, Mean.		Time of one Vibration.	Effect of 90° Torsion.	Tem-perature.	Scale Reading.	Thermo-meter.	22·5 cms.	30·0 cms.	Tem-perature.	Scale Reading.	Thermo-meter.			From Deflection at distance.		Difference.	Mean.	Observed Monthly Mean Values of H.
															22·5 cms ($H_{22·5}$).	30·0 cms ($H_{30·0}$).	$H_{22·5} - H_{30·0}$	$\frac{H_{22·5} + H_{30·0}}{2}$	
1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H.	m.	S.	Sc. div.	°	S.	mm.	°	° ′ ″	° ′ ″	°	mm.	°							
Oct. 2	12	10	2·7068	1·41	29·2	−2·4	86·7	88·3	26 37 47	10 49 54	29·3	84·8	88·3	G. S. J.	939·25	0·36877	0·36877	·00000	0·36877	
„ „	15	11	2·7085	1·39	29·9	„	78·0	88·3	26 38 29	10 50 8	29·8	79·6	88·3	G. S. J.	939·14	·36848	·36849	−·00001	·36848	
„ 9	12	14	2·7067	1·40	30·0	−2·2	84·1	89·0	26 37 22	10 49 41	29·9	83·8	89·0	G. S. J.	939·49	·36885	·36887	−·00002	·36886	
„ „	15	10	2·7081	1·39	30·0	„	79·0	89·0	26 37 48	10 49 52	30·2	79·5	89·0	G. S. J.	939·20	·36860	·36860	·00000	·36860	
„ 17	12	21	2·7072	1·40	30·5	−2·6	84·8	89·6	26 36 20	10 49 17	30·4	82·8	89·6	G. S. J.	939·27	·36889	·36891	−·00002	·36890	·368657
„ „	15	13	2·7086	1·39	30·4	„	75·6	89·6	26 37 30	10 49 46	30·8	77·4	89·6	G. S. J.	939·18	·36853	·36854	−·00001	·36853	
„ 24	12	13	2·7065	1·39	29·9	−2·7	*92·2	89·7	26 36 54	10 49 35	30·0	*90·8	89·7	G. S. J.	939·44	·36890	·36890	·00000	·36890	
„ „	15	11	2·7093	1·39	30·7	„	83·0	89·7	26 37 51	10 49 55	30·5	85·0	89·7	G. S. J.	939·01	·36845	·36845	·00000	·36845	
„ 30	12	11	2·7081	1·39	30·0	−2·6	86·0	89·3	26 37 57	10 49 57	30·1	85·8	89·3	G. S. J.	939·23	·36859	·36859	·00000	·36859	
„ „	15	13	2·7088	1·37	30·6	„	83·7	89·3	26 37 47	10 49 55	30·7	84·3	89·3	G. S. J.	939·20	·36849	·36849	·00000	·36849	
Nov. 6	12	43	2·7067	1·39	29·8	−2·8	93·4	89·1	26 36 33	10 49 28	30·1	90·9	89·0	G. S. J.	939·29	·36891	·36889	+·00002	·36890	
„ „	14	53	2·7084	1·39	30·9	„	85·0	89·0	26 36 44	10 49 36	30·6	86·9	89·0	G. S. J.	939·14	·36871	·36868	+·00003	·36869	
„ 13	12	12	2·7066	1·38	29·7	−2·4	90·7	88·8	26 36 23	10 49 25	30·4	89·2	88·8	G. S. J.	939·33	·36890	·36888	+·00002	·36889	
„ „	15	12	2·7087	1·39	31·1	„	84·6	88·8	26 36 12	10 49 25	31·1	86·4	88·8	G. S. J.	939·05	·36869	·36865	+·00004	·36867	·368861
„ 20	12	23	2·7061	1·39	29·3	−2·8	92·8	88·2	26 36 20	10 49 21	29·6	91·5	88·2	G. S. J.	939·23	·36901	·36901	·00000	·36901	
„ „	15	11	2·7074	1·37	30·2	„	86·5	88·2	26 36 50	10 49 35	30·0	87·6	88·2	G. S. J.	939·20	·36882	·36881	+·00001	·36881	
„ 27	12	19	2·7056	1·39	28·5	−2·9	91·2	88·0	26 36 36	10 49 28	29·4	92·4	88·0	G. S. J.	939·25	·36899	·36899	·00000	·36899	
„ „	15	11	2·7060	1·39	28·9	„	89·3	88·0	26 37 10	10 49 40	29·3	90·7	88·0	G. S. J.	939·31	·36893	·36893	·00000	·36893	
Dec. 4	12	12	2·7039	1·37	27·1	−2·5	94·1	87·1	26 37 45	10 49 56	27·4	93·9	87·1	G. S. J.	939·38	·36916	·36916	·00000	·36916	
„ „	15	11	2·7061	1·37	27·9	„	86·8	87·1	26 38 38	10 50 17	27·8	88·4	87·1	G. S. J.	939·14	·36880	·36878	+·00002	·36879	
„ 11	12	25	2·7051	1·40	26·9	+1·4	86·4	86·2	26 40 0	10 50 48	27·0	85·3	86·2	G. S. J.	939·49	·36880	·36878	+·00002	·36879	
„ „	15	12	2·7065	1·39	27·5	„	82·5	86·2	26 40 26	10 50 57	27·3	83·1	86·2	G. S. J.	939·31	·36858	·36857	+·00001	·36857	·368826
„ 18	12	21	2·7047	1·41	26·7	+1·0	87·4	85·3	26 39 14	10 50 36	27·1	86·3	85·3	G. S. J.	939·42	·36891	·36887	+·00004	·36889	
„ „	15	12	2·7070	1·40	28·3	„	80·2	85·3	26 39 56	10 50 42	27·9	81·4	85·3	G. S. J.	939·29	·36858	·36859	−·00001	·36858	
„ 25	12	20	2·7041	1·39	26·1	+1·7	93·4	85·0	26 38 41	10 50 17	26·6	92·3	85·0	G. S. J.	939·18	·36905	·36903	+·00002	·36904	
„ „	15	12	2·7054	1·38	26·9	„	84·9	85·0	26 39 46	10 50 37	26·9	86·9	85·0	G. S. J.	939·27	·36879	·36880	−·00001	·36879	

The mean† observed value of the Horizontal Force for the year 1907 = 0·368799

* The change in the scale reading is due to the cleaning of the mirror.

† The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table Ib.

Observations of Vibration and Deflection, taken with Magnetometer No. 3 (Cambridge Scientific Instrument Co.) for the determination of Absolute Horizontal Force.

1907.

1907. Date.	Vibration Magnet. Civil Time, Mean.	Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Angle of Deflection. Distance. 23 cms.	30 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Observer.	Calculated Results in C. G. S. Unit. Values of m.	Values of H. From Deflection at distance. 23 cms. (H_{23}).	30 cms. (H_{30}).	Difference. $H_{23} - H_{30}$.	Mean. $\frac{H_{23}+H_{30}}{2}$	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9		10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	mm.	° ′ ″	° ′ ″		° ′ ″		mm.								
JAN. 7	12 17	2·8662	1·65	26·9	−2·6	81·8	85·2	23 51 38		10 30 59	27·0	81·2	85·2	G. S. J.	918·35	0·36877	0·36875	+·00002	0·36876	
,, ,,	15 8	2·8666	1·71	27·3	,,	79·7	85·2	23 51 34		10 30 53	27·3	79·0	85·2	G. S. J.	918·31	·36872	·36872	·00000	·36872	
,, 15	12 35	2·8657	1·77	27·1	−2·8	79·7	85·0	23 53 15		10 31 51	26·9	69·8	85·0	G. S. J.	919·09	·36865	·36858	+·00007	·36861	
,, ,,	14 55	2·8685	1·83	27·2	,,	67·4	85·0	23 53 55		10 31 47	27·4	65·3	85·0	G. S. J.	918·40	·36818	·36821	−·00003	·36819	·368656
,, 22	12 20	2·8658	1·99	26·8	−2·6	76·6	84·4	23 52 59		10 31 30	26·7	75·2	84·4	G. S. J.	918·73	·36865	·36865	·00000	·36865	
,, ,,	15 8	2·8664	1·95	27·0	,,	74·9	84·4	23 52 30		10 31 24	26·8	75·0	84·4	G. S. J.	918·50	·36865	·36860	+·00005	·36862	
,, 28	12 32	2·8646	1·79	26·7	−3·0	84·7	84·1	23 50 43		10 30 41	27·1	81·9	84·1	G. S. J.	918·59	·36905	·36900	+·00005	·36902	
,, ,,	15 14	2·8670	1·73	27·4	,,	73·0	84·1	23 51 36		10 30 50	27·3	76·4	84·1	G. S. J.	918·18	·36867	·36869	−·00002	·36868	
FEB. 4	12 21	2·8638	1·71	25·2	−2·7	84·2	83·7	23 52 0		10 31 10	25·3	83·1	83·7	G. S. J.	918·52	·36904	·36900	+·00004	·36902	
,, ,,	14 56	2·8656	1·75	25·2	,,	75·8	83·7	23 52 26		10 31 22	25·2	78·6	83·7	G. S. J.	918·02	·36876	·36872	+·00004	·36874	
,, 11	12 23	2·8685	1·87	26·6	−2·1	62·8	83·6	23 54 37		10 32 10	26·7	61·5	83·6	G. S. J.	918·35	·36811	·36810	+·00001	·36810	
,, ,,	15 11	2·8693	1·77	26·7	,,	58·9	83·7	23 54 44		10 32 16	26·8	59·5	83·7	G. S. J.	918·18	·36798	·36797	+·00001	·36797	·368492
,, 18	12 38	2·8669	1·71	27·4	−1·9	74·5	83·9	23 52 51		10 31 36	26·6	71·0	83·9	G. S. J.	918·57	·36861	·36855	+·00006	·36858	
,, ,,	15 16	2·8679	1·72	26·8	,,	66·7	83·9	23 53 18		10 31 41	26·8	66·8	83·9	G. S. J.	918·27	·36836	·36833	+·00003	·36834	
,, 25	12 17	2·8663	1·81	27·0	−2·0	74·4	83·9	23 52 11		10 31 11	27·0	71·9	83·9	G. S. J.	918·48	·36869	·36867	+·00002	·36868	
,, ,,	15 15	2·8673	1·78	27·3	,,	67·5	83·9	23 52 34		10 31 21	27·3	67·3	83·9	G. S. J.	918·42	·36852	·36850	+·00002	·36851	
MAR. 4	12 35	2·8653	1·77	28·3	−1·8	83·8	84·4	23 49 14		10 30 1	27·6	84·2	84·4	G. S. J.	918·35	·36923	·36920	+·00003	·36921	
,, ,,	15 17	2·8662	1·80	28·1	,,	79·2	84·4	23 49 22		10 30 3	27·8	82·2	84·4	G. S. J.	918·08	·36906	·36903	+·00003	·36904	
,, 11	12 36	2·8662	1·80	26·7	−2·0	69·2	85·0	23 52 48		10 31 30	26·9	66·1	85·0	G. S. J.	918·63	·36861	·36858	+·00003	·36859	
,, ,,	14 56	2·8674	1·81	27·0	,,	63·7	85·0	23 52 35		10 31 18	26·9	65·6	85·0	G. S. J.	918·21	·36850	·36850	·00000	·36850	
,, 18	12 18	2·8653	1·77	27·7	−1·7	77·5	85·2	23 49 36		10 30 24	26·8	76·9	85·2	G. S. J.	918·25	·36922	·36911	+·00011	·36916	·368879
,, ,,	15 10	2·8661	1·91	27·2	,,	69·5	85·2	23 51 16		10 30 47	27·0	71·5	85·2	G. S. J.	918·29	·36883	·36882	+·00001	·36882	
,, 25	12 10	2·8662	1·84	28·6	−2·1	74·3	85·8	23 50 14		10 30 28	27·9	74·2	85·8	G. S. J.	918·50	·36899	·36894	+·00005	·36896	
,, ,,	15 10	2·8675	1·73	28·2	,,	66·6	85·8	23 50 22		10 30 28	28·1	70·8	85·8	G. S. J.	918·08	·36877	·36874	+·00003	·36875	

1907. Date.	Vibration Magnet. Civil Time, Mean.	Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Angle of Deflection. Distance. 23 cms.	30 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Observer.	Values of m.	Calculated Results in C. G. S. Unit. Values of H. From Deflection at distance. 23 cms. (H_{23}).	30 cms. (H_{30}).	Difference. $H_{23} - H_{30}$.	Mean. $\frac{H_{23} + H_{30}}{2}$	Observed Monthly Mean Values. of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	-	S.	mm.	-	° ′ ″	° ′ ″	°	mm.	′							
April 1	12 19	2·8663	1·68	30·0	− 1·7	78·6	86·6	23 47 33	10 29 13	29·8	76·4	86·6	G. S. J.	918·37	0·36927	0·36926	+ ·00001	0·36926	
,, ,,	15 13	2·8684	1·70	29·9	,,	67·4	86·6	23 48 20	10 29 41	29·9	70·4	86·6	G. S. J.	917·99	·36888	·36883	+ ·00005	·36885	
,, 8	12 22	2·8674	1·96	30·2	− 1·5	74·7	87·6	23 48 33	10 29 34	29·9	71·4	87·6	G. S. J.	918·31	·36899	·36899	·00000	·36899	
,, ,,	15 11	2·8687	1·84	30·1	,,	63·7	87·7	23 48 58	10 30 2	30·1	66·4	87·7	G. S. J.	918·14	·36875	·36868	+ ·00007	·36871	
,, 15	12 25	2·8674	1·78	29·9	− 1·9	68·1	88·4	23 49 54	10 30 12	29·3	64·9	88·4	G. S. J.	918·57	·36887	·36886	+ ·00001	·36886	·368827
,, ,,	15 14	2·8686	1·83	29·5	,,	58·4	88·4	23 50 31	10 30 30	29·1	60·0	88·4	G. S. J.	918·25	·36862	·36860	+ ·00002	·36861	
,, 23	12 30	2·8671	1·78	30·1	− 1·8	67·2	89·2	23 48 56	10 29 49	29·8	64·7	89·2	G. S. J.	918·54	·36899	·36899	·00000	·36899	
,, ,,	15 15	2·8687	1·71	29·9	,,	58·1	89·2	23 49 25	10 30 15	29·9	58·4	89·2	G. S. J.	918·23	·36871	·36862	+ ·00009	·36866	
,, 29	12 25	2·8679	1·80	30·0	− 1·7	63·3	89·6	23 49 41	10 30 11	29·1	61·6	89·6	G. S. J.	918·35	·36886	·36883	+ ·00003	·36884	
,, ,,	15 12	2·8694	1·82	29·8	,,	55·0	89·6	23 50 21	10 30 31	29·6	56·1	89·6	G. S. J.	918·16	·36853	·36848	+ ·00005	·36850	
May 6	12 43	2·8657	1·78	30·6	− 1·8	70·3	90·0	23 47 51	10 29 26	30·0	66·7	90·0	G. S. J.	918·84	·36933	·36930	+ ·00003	·36931	
,, ,,	14 58	2·8678	1·77	30·1	,,	61·4	90·0	23 48 30	10 29 45	29·9	63·2	90·0	G. S. J.	918·25	·36894	·36890	+ ·00004	·36892	
,, 13	12 32	2·8679	1·76	29·9	− 1·7	58·3	90·2	23 50 21	10 30 34	29·6	52·8	90·2	G. S. J.	918·69	·36873	·36867	+ ·00006	·36870	
,, ,,	15 13	2·8712	1·75	30·3	,,	41·4	90·2	23 51 23	10 31 0	30·1	43·8	90·2	G. S. J.	918·12	·36816	·36811	+ ·00005	·36813	·368710
,, 20	12 36	2·8694	1·78	31·0	− 1·5	51·8	90·9	23 50 14	10 30 27	30·1	49·8	90·9	G. S. J.	918·48	·36860	·36856	+ ·00004	·36858	
,, ,,	15 15	2·8698	1·81	30·6	,,	48·8	90·9	23 50 8	10 30 25	30·2	49·2	90·9	G. S. J.	918·27	·36852	·36848	+ ·00004	·36850	
,, 27	12 28	2·8692	1·71	31·4	− 1·5	56·5	91·5	23 48 19	10 29 37	30·8	55·6	91·5	G. S. J.	918·23	·36882	·36880	+ ·00002	·36881	
,, ,,	15 15	2·8694	1·78	31·1	,,	51·8	91·5	23 48 28	10 29 45	30·8	53·0	91·5	G. S. J.	918·16	·36875	·36871	+ ·00004	·36873	
June 3	12 25	2·8680	1·70	30·5	− 1·5	56·4	92·2	23 48 24	10 29 41	30·2	55·4	92·2	G. S. J.	918·29	·36894	·36891	+ ·00003	·36892	
,, ,,	15 27	2·8688	1·88	30·0	,,	48·8	92·2	23 49 1	10 30 3	30·2	50·7	92·2	G. S. J.	918·12	·36871	·36865	+ ·00006	·36868	
,, 10	12 17	2·8689	1·96	31·1	− 1·7	50·0	92·6	23 49 50	10 30 15	30·4	46·5	92·6	G. S. J.	918·57	·36867	·36865	+ ·00002	·36866	
,, ,,	14 57	2·8693	1·93	30·7	,,	46·6	92·6	23 49 10	10 30 2	30·7	45·8	92·6	G. S. J.	918·27	·36865	·36860	+ ·00005	·36862	·368720
,, 17	12 43	2·8655	1·73	27·5	− 1·3	55·9	91·9	23 50 35	10 30 35	27·1	53·9	91·9	G. S. J.	918·42	·36903	·36899	+ ·00004	·36901	
,, ,,	15 16	2·8666	1·67	27·1	,,	47·8	91·9	23 51 35	10 31 5	26·6	50·2	91·9	G. S. J.	918·21	·36877	·36871	+ ·00006	·36874	
,, 24	12 12	2·8679	1·63	29·1	− 1·6	49·4	90·0	23 50 11	10 30 26	29·1	46·7	90·0	G. S. J.	918·35	·36873	·36869	+ ·00004	·36871	
,, ,,	15 15	2·8695	1·69	29·3	,,	41·2	90·0	23 50 43	10 30 45	29·2	42·1	90·0	G. S. J.	918·06	·36846	·36839	+ ·00007	·36842	
July 1	12 52	2·8681	1·57	29·6	− 1·7	47·8	89·9	23 50 10	10 30 17	29·3	46·9	89·9	G. S. J.	918·40	·36874	·36874	·00000	·36874	
,, ,,	14 59	2·8681	1·61	29·1	,,	43·9	89·9	23 49 42	10 30 16	29·3	46·1	89·9	G. S. J.	918·18	·36875	·36870	+ ·00005	·36872	
,, 8	12 12	2·8680	1·61	29·6	− 1·6	48·0	89·5	23 49 50	10 30 15	29·1	46·6	89·5	G. S. J.	918·31	·36880	·36877	+ ·00003	·36878	
,, ,,	15 11	2·8691	1·60	29·1	,,	40·3	89·4	23 50 5	10 30 28	29·3	43·1	89·5	G. S. J.	918·06	·36850	·36853	+ ·00006	·36850	
,, 15	12 26	2·8674	1·61	28·8	− 1·8	48·1	90·0	23 49 18	10 29 58	29·3	48·0	90·0	G. S. J.	918·18	·36880	·36885	+ ·00001	·36885	·368742
,, ,,	15 12	2·8682	1·59	29·2	,,	44·5	90·0	23 49 18	10 30 10	29·2	46·1	90·0	G. S. J.	918·06	·36880	·36873	+ ·00007	·36876	
,, 22	12 45	2·8649	1·59	26·8	− 1·6	53·6	88·9	23 50 46	10 30 40	26·8	50·1	88·8	G. S. J.	918·48	·36906	·36902	+ ·00004	·36904	
,, ,,	15 13	2·8662	1·59	26·9	,,	47·9	88·8	23 50 42	10 30 48	26·7	48·7	88·8	G. S. J.	918·10	·36892	·36882	+ ·00010	·36887	
,, 29	12 35	2·8667	1·59	26·8	− 2·0	43·3	87·0	23 52 27	10 31 26	26·3	42·9	87·0	G. S. J.	918·33	·36867	·36861	+ ·00006	·36864	
,, ,,	15 12	2·8674	1·56	26·4	,,	36·7	87·0	23 52 56	10 31 38	26·2	38·9	87·0	G. S. J.	918·14	·36849	·36843	+ ·00006	·36846	

Aug.	5	12	14	2·8665	1·51	27·7	− 2·2	48·4	86·1	23	50	30	10	30	31	27·7	46·6	86·1	G. S. J.	918·29	·36888	·36886	+·00002	·36887	·368835
,,	,,	15	12	2·8677	1·51	27·7	,,	40·9	86·1	23	50	40	10	30	45	27·7	43·6	86·1	G. S. J.	918·02	·36871	·36864	+·00007	·36867	
,,	12	12	23	2·8654	1·50	26·2	− 1·7	48·8	85·6	23	51	19	10	30	52	26·2	48·5	85·6	G. S. J.	918·23	·36893	·36890	−·00003	·36891	
,,	,,	15	7	2·8661	1·47	26·2	,,	44·4	85·5	23	51	33	10	31	0	26·1	46·5	85·5	G. S. J.	918·08	·36882	·36879	+·00003	·36880	
,,	19	12	16	2·8659	1·48	26·8	− 2·3	48·5	84·9	23	50	55	10	30	41	27·0	46·7	84·9	G. S. J.	918·25	·36890	·36888	+·00002	·36889	
,,	,,	15	12	2·8661	1·47	26·6	,,	44·0	84·9	23	50	59	10	30	57	26·8	44·9	84·9	G. S. J.	918·23	·36887	·36877	+·00010	·36882	
,,	26	12	10	2·8659	1·47	27·6	− 3·1	50·9	84·9	23	50	17	10	30	33	27·1	47·8	84·9	G. S. J.	918·29	·36903	·36897	+·00006	·36900	
,,	,,	15	11	2·8675	1·46	27·6	,,	42·9	84·9	23	50	44	10	30	46	27·3	43·1	84·9	G. S. J.	917·97	·36876	·36868	+·00008	·36872	
Sept.	2	12	15	2·8663	1·46	28·0	− 2·7	†96·6	85·5	23	49	22	10	30	5	28·1	†96·4	85·5	G. S. J.	918·16	·36905	·36900	+·00005	·36902	·368869
,,	,,	15	11	2·8681	1·45	28·5	,,	86·9	85·5	23	50	8	10	30	23	28·3	91·1	85·5	G. S. J.	917·97	·36875	·36871	+·00004	·36873	
,,	9	12	14	2·8656	1·45	27·9	− 2·7	97·7	86·0	23	49	26	10	30	5	27·6	96·4	86·0	G. S. J.	918·27	·36916	·36912	+·00004	·36914	
,,	,,	14	57	2·8674	1·48	27·7	,,	89·5	86·0	23	50	8	10	30	22	27·7	92·0	86·0	G. S. J.	917·89	·36882	·36879	+·00003	·36880	
,,	16	12	24	2·8674	1·49	29·0	− 2·6	91·9	86·7	23	50	24	10	30	26	28·4	87·5	86·7	G. S. J.	918·37	·36882	·36882	·00000	·36882	
,,	,,	15	13	2·8691	1·49	28·5	,,	81·4	86·8	23	50	41	10	30	43	28·4	84·4	86·8	G. S. J.	917·87	·36853	·36847	+·00006	·36850	
,,	23	12	18	2·8677	1·49	29·0	− 2·7	89·9	87·5	23	50	4	10	30	13	28·3	8·9	87·6	G. S. J.	918·14	·36884	·36885	−·00001	·36884	
,,	,,	15	14	2·8680	1·48	28·7	,,	84·9	87·6	23	49	53	10	30	22	28·6	86·5	87·6	G. S. J.	918·08	·36877	·36871	+·00006	·36874	
,,	30	12	17	2·8655	1·48	28·2	− 1·9	93·6	88·3	23	49	18	10	30	6	27·5	93·5	88·3	G. S. J.	918·33	·36922	·36917	+·00005	·36919	
,,	,,	15	13	2·8671	1·50	27·9	,,	87·0	88·2	23	49	27	10	30	12	27·8	90·5	88·2	G. S. J.	917·89	·36894	·36888	+·00006	·36891	
Oct.	7	12	16	2·8674	1·48	30·2	− 2·3	90·1	88·9	23	48	40	10	29	39	29·4	88·0	88·9	G. S. J.	918·31	·36905	·36905	·00000	·36905	·368537
,,	,,	15	12	2·8684	1·47	29·9	,,	82·8	88·9	23	48	39	10	29	51	29·8	84·2	88·9	G. S. J.	918·10	·36887	·36881	+·00006	·36884	
,,	15	12	10	2·8710	1·51	30·4	− 2·6	69·3	89·5	23	52	11	10	31	8	29·5	66·2	89·5	G. S. J.	918·31	·36817	·36818	−·00001	·36817	
,,	,,	15	9	2·8706	1·49	29·9	,,	70·1	89·5	23	51	26	10	30	59	29·7	67·5	89·5	G. S. J.	918·21	·36826	·36821	+·00005	·36823	
,,	22	12	9	2·8672	1·51	29·6	− 2·5	*96·6	89·8	23	50	36	10	30	32	28·9	*86·5	89·8	G. S. J.	918·76	·36883	·36882	+·00001	·36882	
,,	,,	15	10	2·8714	1·56	29·6	,,	70·9	89·8	23	52	12	10	31	10	29·4	74·6	89·8	G. S. J.	917·99	·36806	·36805	+·00001	·36805	
,,	28	12	17	2·8687	1·65	30·1	− 2·6	89·9	89·4	23	49	52	10	30	9	29·8	87·3	89·4	G. S. J.	918·29	·36868	·36868	·00000	·36868	
,,	,,	15	13	2·8702	1·65	30·6	,,	84·4	89·4	23	50	1	10	30	16	30·4	83·1	89·4	G. S. J.	918·14	·36847	·36846	+·00001	·36846	
Nov.	4	12	38	2·8694	1·71	30·2	− 2·7	86·3	89·1	23	49	47	10	30	1	30·2	85·3	89·1	G. S. J.	918·12	·36858	·36861	−·00003	·36859	·368651
,,	,,	14	56	2·8704	1·81	30·1	,,	78·4	89·1	23	50	15	10	30	21	30·1	80·5	89·1	G. S. J.	917·93	·36838	·36837	+·00001	·36837	
,,	11	12	27	2·8678	1·88	29·9	− 2·7	90·7	89·0	23	49	12	10	29	56	29·6	88·5	89·0	G. S. J.	918·29	·36887	·36885	+·00002	·36886	
,,	,,	15	15	2·8694	1·93	29·5	,,	79·8	89·0	23	49	56	10	30	16	29·5	84·0	89·0	G. S. J.	917·89	·36854	·36852	+·00002	·36853	
,,	18	12	24	2·8671	1·40	28·2	− 2·9	90·7	88·1	23	50	29	10	30	27	27·9	89·3	88·1	G. S. J.	918·23	·36884	·36883	+·00001	·36883	
,,	,,	15	11	2·8685	1·35	28·6	,,	85·8	88·1	23	50	31	10	30	36	28·2	86·1	88·1	G. S. J.	918·02	·36867	·36863	+·00004	·36865	
,,	25	12	19	2·8678	1·31	29·1	− 2·6	91·3	88·1	23	49	39	10	30	11	28·8	88·1	88·1	G. S. J.	918·18	·36886	·36882	+·00004	·36884	
,,	,,	15	12	2·8693	1·30	29·3	,,	81·0	88·0	23	50	13	10	30	33	29·1	82·7	88·0	G. S. J.	918·04	·36858	·36851	+·00007	·36854	
Dec.	2	12	24	2·8673	1·40	29·0	− 2·7	90·4	87·7	23	48	36	10	29	37	29·6	87·8	87·7	G. S. J.	918·14	·36897	·36897	·00000	·36897	·368771
,,	,,	15	11	2·8688	1·52	28·8	,,	84·0	87·7	23	49	54	10	30	16	29·1	85·3	87·7	G. S. J.	917·91	·36863	·36860	+·00003	·36861	
,,	9	12	21	2·8659	1·65	26·1	+ 1·8	88·4	86·3	23	52	21	10	31	7	26·0	86·5	86·3	G. S. J.	918·27	·36877	·36879	−·00002	·36878	
,,	,,	15	10	2·8673	1·70	26·6	,,	82·8	86·3	23	52	6	10	31	11	26·5	83·7	86·3	G. S. J.	918·04	·36861	·36859	+·00002	·36860	
,,	16	12	22	2·8671	1·73	27·4	+ 1·1	86·2	85·5	23	50	27	10	30	28	27·9	85·1	85·5	G. S. J.	918·06	·36877	·36876	+·00001	·36876	
,,	,,	15	12	2·8680	1·76	28·2	,,	83·7	85·5	23	50	30	10	30	32	28·5	84·4	85·5	G. S. J.	918·10	·36866	·36863	+·00003	·36864	
,,	23	12	23	2·8658	1·84	28·0	+ 1·2	92·2	85·1	23	49	23	10	29	58	28·2	91·0	85·1	G. S. J.	918·29	·36908	·36908	·00000	·36908	
,,	,,	15	13	2·8683	1·84	27·9	,,	83·3	85·1	23	50	31	10	30	22	28·0	85·7	85·1	G. S. J.	917·76	·36865	·36866	−·00001	·36865	
,,	30	12	37	2·8656	1·76	26·6	+ 1·3	89·0	84·8	23	51	52	10	30	59	26·3	86·6	84·8	G. S. J.	918·40	·36886	·36887	−·00001	·36886	
,,	,,	15	13	2·8663	1·84	26·6	,,	84·6	84·8	23	51	40	10	30	59	26·6	84·9	84·8	G. S. J.	918·21	·36877	·36875	+·00002	·36876	

The mean observed value of the Horizontal Force for the year 1907 = 0·368724

† H. F. Magnetograph was readjusted on 1st September.

* The change in the scale reading is due to the cleaning of the mirror.

Absolute Magnetical Observations, Alibag—Table IIa.

OBSERVATIONS OF ABSOLUTE DECLINATION, 1907.

Taken with Magnetometer No. 7 (T. Cooke and Sons).

1907. Date.	Alibag Civil Time.	Mean Readings. Collimator Magnet. Scale apparently Erect.	Collimator Magnet. Scale apparently Inverted.	Horizontal Circle with Telescope pointed to: Scale of Collimator Magnet.	Horizontal Circle with Telescope pointed to: Kennery Light-house.	Torsion. Mean.	Torsion. Effect of 90°.	Observer.	Corresponding Ordinate of Declination Magnetograms.	Absolute Easterly Declination corrected for Torsion.	Monthly Mean. Corresponding Ordinate of Declination Magnetograms.	Monthly Mean. Observed Absolute Easterly Declination.
1	2	3	4	5	6	7	8	9	10	11	12	13
	H. m.	Sc. div.	Sc. div.	° ′ ″	° ′ ″	°	Sc. div.		cms.	° ′ ″	cms.	° ′ ″
JAN. 3	11 41	55·6	...	85 36 20	222 25 40	0	...	G. S. J.	6·515	1 4 5		
„ 10	11 55	55·6	...	85 36 15	222 25 35	0	...	G. S. J.	6·545	1 4 5		
„ 18	11 41	55·6	...	85 34 55	222 25 30	0	...	G. S. J.	6·405	1 2 50	6·501	1 3 48
„ 25	11 41	55·6	...	85 35 50	222 25 30	0	...	G. S. J.	6·500	1 3 45		
„ 31	11 44	55·6	...	85 36 15	222 25 25	0	...	G. S. J.	6·540	1 4 15		
FEB. 7	11 38	55·6	...	85 37 20	222 25 40	0	...	G. S. J.	6·647	1 5 5		
„ 14	11 42	55·6	...	85 37 50	222 25 30	0	...	G. S. J.	6·705	1 5 45	6·615	1 4 51
„ 21	11 44	55·6	...	85 35 25	222 25 25	0	...	G. S. J.	6·472	1 3 25		
„ 28	11 50	55·6	...	85 37 15	222 25 30	0	...	G. S. J.	6·637	1 5 10		
MARCH 7	11 38	55·6	...	85 34 55	222 25 30	0	...	G. S. J.	6·420	1 2 50		
„ 14	11 46	55·6	...	85 37 15	222 25 20	0	...	G. S. J.	6·645	1 5 20	6·509	1 3 50
„ 21	11 49	55·6	...	85 36 25	222 25 15	0	...	G. S. J.	6·587	1 4 35		
„ 28	11 46	55·6	...	85 34 30	222 25 20	0	...	G. S. J.	6·385	1 2 35		
APRIL 4	11 45	55·6	...	85 33 20	222 25 20	0	...	G. S. J.	6·250	1 1 25		
„ 11	11 29	55·6	...	85 34 45	222 25 20	0	...	G. S. J.	6·397	1 2 50	6·363	1 2 26
„ 18	11 35	55·6	...	85 35 40	222 25 20	0	...	G. S. J.	6·507	1 3 45		
„ 26	11 32	55·6	...	85 33 45	222 25 25	0	...	G. S. J.	6·300	1 1 45		
MAY 2	11 49	55·6	...	85 34 25	*131 24 20	0	...	G. S. J.	6·385	1 2 8		
„ 9	11 36	55·6	...	85 33 35	222 25 25	0	...	G. S. J.	6·290	1 1 35		
„ 16	11 49	55·6	...	85 34 35	222 25 10	0	...	G. S. J.	6·415	1 2 50	6·371	1 2 15
„ 23	11 48	55·6	...	85 34 20	222 25 10	0	...	G. S. J.	6·395	1 2 35		
„ 30	11 47	55·6	...	85 34 10	222 25 30	0	...	G. S. J.	6·370	1 2 5		
JUNE 6	11 44	55·6	...	85 33 20	222 25 15	0	...	G. S. J.	6·310	1 1 30		
„ 13	11 51	55·6	...	85 33 40	222 25 10	0	...	G. S. J.	6·370	1 1 55	6·355	1 1 47
„ 20	11 34	55·6	...	85 32 55	222 25 20	0	...	G. S. J.	6·280	1 1 0		
„ 27	11 41	55·6	...	85 34 30	222 25 10	0	...	G. S. J.	6·460	1 2 45		
JULY 4	11 21	55·6	...	85 34 15	222 25 20	0	...	G. S. J.	6·415	1 2 20		
„ 11	11 36	55·6	...	85 34 0	222 25 15	0	...	G. S. J.	6·375	1 2 10	6·308	1 1 23
„ 18	11 28	55·6	...	85 32 20	*131 23 55	0	...	G. S. J.	6·227	1 0 28		
„ 25	11 48	55·6	...	85 32 20	*131 23 50	0	...	G. S. J.	6·217	1 0 33		
AUG. 1	11 44	55·6	...	85 32 40	222 25 20	0	...	G. S. J.	6·237	1 0 45		
„ 8	11 31	55·6	...	85 33 30	*131 23 55	0	...	G. S. J.	6·300	1 1 38		
„ 15	11 41	55·6	...	85 33 30	222 25 20	0	...	G. S. J.	6·320	1 1 35	6·255	1 1 2
„ 22	11 42	55·6	...	85 32 15	222 25 20	0	...	G. S. J.	6·175	1 0 20		
„ 29	11 31	55·6	...	85 33 5	222 25 40	0	...	G. S. J.	6·245	1 0 50		
SEPT. 5	11 33	55·6	...	85 32 35	222 25 30	0	...	G. S. J.	6·212	1 0 30		
„ 12	11 42	55·6	...	85 31 55	222 25 35	0	...	G. S. J.	6·140	0 59 45	6·273	1 1 6
„ 19	11 33	55·6	...	85 34 45	222 25 30	0	...	G. S. J.	6·440	1 2 40		
„ 26	11 39	55·6	...	85 33 35	222 25 30	0	...	G. S. J.	6·300	1 1 30		
OCT. 3	11 39	55·6	...	85 33 15	222 25 30	0	...	G. S. J.	6·280	1 1 10		
„ 10	11 40	55·6	...	85 35 0	222 25 40	0	...	G. S. J.	6·440	1 2 45		
„ 18	11 9	55·6	...	85 34 45	222 25 25	0	...	G. S. J.	6·445	1 2 45	6·374	1 2 12
„ 25	11 31	55·6	...	85 33 0	222 25 15	0	...	G. S. J.	6·260	1 1 10		
„ 31	11 30	55·6	...	85 35 25	222 25 40	0	...	G. S. J.	6·447	1 3 10		
NOV. 7	11 45	55·6	...	85 34 55	222 25 45	0	...	G. S. J.	6·390	1 2 35		
„ 14	11 47	55·6	...	85 34 5	222 25 35	0	...	G. S. J.	6·355	1 1 55	6·356	1 2 6
„ 21	11 51	55·6	...	85 34 5	222 25 20	0	...	G. S. J.	6·370	1 2 10		
„ 28	11 41	55·6	...	85 33 25	222 25 5	0	...	G. S. J.	6·310	1 1 45		
DEC. 5	11 42	55·6	...	85 35 0	222 24 55	0	...	G. S. J.	6·470	1 3 30		
„ 12	11 37	55·6	...	85 33 0	222 24 35	0	...	G. S. J.	6·320	1 1 50	6·435	1 3 6
„ 19	11 47	55·6	...	85 34 45	222 24 30	0	...	G. S. J.	6·480	1 3 40		
„ 26	11 33	55·6	...	85 34 20	222 24 20	0	...	G. S. J.	6·470	1 3 25		

The meant observed Declination for the year 1907 = 1° 2′ 29″

* As the Kennery Light-house was not visible, the known azimuth of a fixed mark in the niche of the wall has been made use of.

† The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table IIb.

OBSERVATIONS OF ABSOLUTE DECLINATION, 1907.

Taken with Magnetometer No. 3 (Cambridge Scientific Instrument Co.).

1907. Date.	Alibag Civil Time.	Mean Readings. Collimator Magnet. Scale apparently Erect.	Inverted.	Horizontal Circle with Telescope pointed to: Scale of Collimator Magnet.	Kennery Light-house.	Torsion. Mean.	Effect of 90°.	Observer.	Corresponding Reading of Declination Magnetograph.	Monthly Mean. Absolute Easterly Declination corrected for Torsion.	Corresponding Reading of Declination Magnetograph.	Observed Absolute Easterly Declination.
1	2	3	4	5	6	7	8	9	10	11	12	13
	H. m.	Sc. div.	Sc. div.	° ′ ″	° ′ ″	°	Sc. div.		mm.	° ′ ″	mm.	° ′ ″
JAN. 3	12 21	33·97	33·49	276 32 50	53 22 50	25 E	0·45	G. S. J.	65·60	1 3 38		
,, 10	12 44	33·97	33·57	276 32 5	53 22 35	0	...	G. S. J.	65·20	1 3 18		
,, 18	12 21	33·97	33·47	276 31 45	53 22 55	0	...	G. S. J.	64·95	1 2 44	65·09	1 3 7
,, 25	12 24	34·00	33·90	276 31 30	53 22 25	0	...	G. S. J.	64·55	1 2 36		
,, 31	12 21	34·02	33·97	276 32 15	53 22 25	0	...	G. S. J.	65·15	1 3 17		
FEB. 7	12 20	33·95	34·10	276 32 45	53 21 45	0	...	G. S. J.	66·15	1 4 17		
,, 14	13 52	33·90	34·10	276 34 30	53 22 30	0	...	G. S. J.	67·15	1 5 14	65·97	1 3 59
,, 21	12 34	34·02	33·90	276 32 25	53 23 10	0	...	G. S. J.	64·90	1 2 47		
,, 28	12 28	33·97	34·05	276 33 30	53 23 10	0	...	G. S. J.	65·70	1 3 40		
MARCH 7	12 16	33·95	34·00	276 31 5	53 22 40	25 W	0·56	G. S. J.	64·35	1 2 6		
,, 14	12 29	34·12	33·77	276 33 15	53 23 5	0	...	G. S. J.	66·20	1 3 54	65·15	1 2 46
,, 21	12 26	33·95	33·92	276 32 55	53 23 5	0	...	G. S. J.	65·70	1 3 16		
,, 28	12 26	34·07	33·95	276 31 10	53 22 55	0	...	G. S. J.	64·35	1 1 47		
APRIL 4	12 21	33·97	34·07	276 29 30	53 23 5	0	...	G. S. J.	62·35	0 59 44		
,, 11	12 10	34·02	34·07	276 30 30	53 22 35	0	...	G. S. J.	63·50	1 1 18	63·27	1 0 56
,, 18	12 19	33·97	34·22	276 31 45	53 22 40	0	...	G. S. J.	64·35	1 2 16		
,, 26	12 17	33·97	34·05	276 29 10	53 22 5	0	...	G. S. J.	62·90	1 0 25		
MAY 2	12 29	33·92	33·95	276 30 55	53 23 0	0	...	G. S. J.	63·90	1 1 19		
,, 9	12 15	34·00	33·90	276 29 35	53 23 0	0	...	G. S. J.	62·75	1 0 6		
,, 16	12 28	33·97	33·97	276 31 5	53 23 0	0	...	G. S. J.	64·00	1 1 30	63·71	1 1 7
,, 23	12 31	33·97	33·85	276 31 15	53 23 15	0	...	G. S. J.	64·00	1 1 32		
,, 30	12 25	33·95	33·97	276 30 55	53 23 10	0	...	G. S. J.	63·90	1 1 9		
JUNE 6	12 27	33·95	33·97	276 30 0	53 23 25	0	...	G. S. J.	62·55	0 59 59		
,, 13	12 34	34·05	33·95	276 30 35	53 23 30	12 W	0·43	G. S. J.	63·21	1 0 43	62·94	1 0 27
,, 20	12 23	33·90	34·12	276 29 50	53 23 10	0	...	G. S. J.	62·10	0 59 52		
,, 27	12 29	33·80	34·40	276 31 35	53 23 10	0	...	G. S. J.	63·90	1 1 16		
JULY 4	12 25	34·05	33·97	276 30 25	53 22 55	0	...	G. S. J.	63·75	1 1 0		
,, 11	12 24	33·95	34·15	276 30 50	53 22 35	0	...	G. S. J.	64·05	1 1 29	63·97	1 1 30
,, 19	12 49	33·95	34·02	276 31 20	53 22 40	0	...	G. S. J.	64·10	1 2 2		
AUG. 1	12 50	33·95	33·95	276 29 10	53 22 10	0	...	G. S. J.	63·00	1 0 25		
,, 8	12 20	33·95	33·95	276 30 10	53 23 10	0	...	G. S. J.	62·95	1 0 25		
,, 15	12 46	33·92	33·90	276 29 15	53 23 5	0	...	G. S. J.	62·25	0 59 36	62·43	0 59 51
,, 22	12 25	33·97	34·02	276 29 15	53 23 5	0	...	G. S. J.	62·10	0 59 33		
,, 29	12 17	33·97	33·90	276 29 5	53 23 15	0	...	G. S. J.	61·85	0 59 18		
SEPT. 5	12 16	33·95	33·85	276 28 40	53 23 15	0	...	G. S. J.	61·90	0 58 56		
,, 12	12 26	33·95	33·95	276 28 30	53 22 55	10 W	0·46	G. S. J.	61·85	0 59 6	62·65	0 59 57
,, 19	12 15	33·95	33·87	276 30 50	53 23 15	0	...	G. S. J.	63·76	1 1 5		
,, 26	12 25	34·00	33·97	276 30 30	53 23 15	0	...	G. S. J.	63·10	1 0 41		
OCT. 3	12 23	33·95	33·97	276 29 40	53 23 5	0	...	G. S. J.	62·45	0 59 59		
,, 10	12 18	33·95	33·85	276 31 20	53 23 10	0	...	G. S. J.	64·05	1 1 41		
,, 18	11 51	33·90	34·05	276 31 10	53 23 5	0	...	G. S. J.	63·60	1 1 22	63·64	1 1 16
,, 25	12 10	34·00	33·85	276 30 45	53 23 35	0	...	G. S. J.	63·05	1 0 43		
,, 31	12 14	34·00	33·82	276 32 25	53 23 25	0	...	G. S. J.	65·05	1 2 35		
NOV. 7	12 23	34·00	33·72	276 31 20	53 23 5	0	...	G. S. J.	64·30	1 1 56		
,, 14	12 26	33·97	33·90	276 30 55	53 22 50	0	...	G. S. J.	64·10	1 1 33	63·91	1 1 32
,, 21	12 30	34·02	33·82	276 31 50	53 23 50	0	...	G. S. J.	63·90	1 1 36		
,, 28	12 21	33·90	33·90	276 29 30	53 21 50	0	...	G. S. J.	63·35	1 1 5		
DEC. 5	12 23	33·92	33·97	276 30 45	53 21 20	0	...	G. S. J.	65·10	1 2 48		
,, 12	12 15	34·07	33·62	276 28 50	53 21 50	0	...	G. S. J.	63·00	1 0 50	64·22	1 2 13
,, 19	12 24	34·00	33·85	276 30 20	53 21 25	5 W	0·57	G. S. J.	64·40	1 2 32		
,, 26	12 9	33·95	33·82	276 30 20	53 21 10	0	...	G. S. J.	64·40	1 2 42		

The mean observed Declination for the year 1907 = 1 ′ 1 33

Absolute Magnetical Observations, Alibag—Table IIIa.

OBSERVATIONS OF INCLINATION, 1907.

Taken with Dip Circle No. 160 (Cambridge Scientific Instrument Co.) and two $3\frac{1}{2}$-inch Needles Nos. 1 and 2 by Dover.

1907. Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		
JAN. 1	11 44	12 42	G. S. J.	1	23 5·1	23 18·8	22 56·4	23 11·2	23 7·9		
,, ,,	12 53	13 50	G. S. J.	2	23 7·4	23 15·7	23 4·2	23 11·2	23 9·6		
,, 4	13 54	14 52	G. S. J.	1	23 10·0	23 20·0	23 1·1	23 14·8	23 11·5		
,, ,,	15 3	16 0	G. S. J.	2	23 10·1	23 14·4	23 5·4	23 12·5	23 10·6		
,, 8	11 24	12 24	G. S. J.	1	23 10·4	23 16·7	23 3·5	23 10·0	23 10·1		
,, ,,	12 34	13 30	G. S. J.	2	23 8·9	23 17·9	23 1·7	23 11·5	23 10·0	No. 1	
,, 11	13 52	14 53	G. S. J.	1	23 8·5	23 16·0	23 1·3	23 11·8	23 9·4	° ′	
,, ,,	15 3	16 0	G. S. J.	2	23 11·1	23 17·8	23 8·8	23 16·6	23 13·6	23 10·4	
,, 16	11 43	12 42	G. S. J.	1	23 10·4	23 16·2	23 4·8	23 11·2	23 10·6		
,, ,,	12 54	13 50	G. S. J.	2	23 11·2	23 15·9	23 9·3	23 14·9	23 12·8		23 10·8
,, 18	13 55	14 55	G. S. J.	1	23 9·5	23 22·4	23 2·9	23 15·5	23 12·6		
,, ,,	15 6	16 2	G. S. J.	2	23 11·7	23 18·9	23 5·8	23 14·6	23 12·7	No. 2	
,, 23	11 27	12 28	G. S. J.	1	23 7·0	23 18·4	22 59·7	23 11·4	23 9·1	° ′	
,, ,,	12 38	13 32	G. S. J.	2	23 6·6	23 13·7	23 5·6	23 7·1	23 8·2	23 11·3	
,, 25	14 21	15 20	G. S. J.	1	23 14·2	23 22·8	23 0·9	23 10·3	23 12·0		
,, ,,	15 29	16 24	G. S. J.	2	23 9·1	23 16·6	23 8·9	23 15·6	23 12·5		
,, 29	11 29	12 27	G. S. J.	1	23 12·2	23 18·4	23 0·7	23 9·2	23 10·1		
,, ,,	12 38	13 33	G. S. J.	2	23 10·6	23 17·2	23 5·6	23 12·5	23 11·5		
FEB. 1	13 50	14 50	G. S. J.	1	23 12·4	23 20·0	23 1·7	23 10·4	23 11·1		
,, ,,	15 0	15 55	G. S. J.	2	23 7·7	23 17·0	23 4·8	23 12·5	23 10·5		
,, 5	11 49	12 46	G. S. J.	1	23 8·9	23 15·3	23 1·3	23 8·7	23 8·5		
,, ,,	12 56	13 54	G. S. J.	2	23 9·1	23 17·0	23 4·3	23 13·2	23 10·9		
,, 8	13 54	14 53	G. S. J.	1	23 8·9	23 16·7	23 2·1	23 9·9	23 9·4	No. 1	
,, ,,	15 4	16 2	G. S. J.	2	23 9·2	23 18·7	23 5·9	23 17·0	23 12·7	° ′	
,, 12	11 43	12 43	G. S. J.	1	23 7·7	23 18·0	23 4·5	23 16·5	23 11·7	23 11·8	
,, ,,	12 53	13 50	G. S. J.	2	23 10·7	23 20·9	23 2·5	23 14·4	23 12·1		23 12·3
,, 15	13 48	14 48	G. S. J.	1	23 11·7	23 24·2	23 4·8	23 18·9	23 14·9		
,, ,,	14 58	15 53	G. S. J.	2	23 9·9	23 21·0	23 9·6	23 20·9	23 15·3		
,, 19	11 44	12 45	G. S. J.	1	23 11·2	23 22·9	22 58·4	23 13·6	23 11·5	No. 2	
,, ,,	12 56	13 52	G. S. J.	2	23 8·8	23 20·2	23 6·6	23 16·1	23 12·9	° ′	
,, 22	13 54	14 54	G. S. J.	1	23 12·6	23 23·2	23 4·7	23 16·1	23 14·1	23 12·8	
,, ,,	15 3	16 0	G. S. J.	2	23 12·9	23 20·7	23 7·4	23 16·9	23 14·5		
,, 26	11 40	12 40	G. S. J.	1	23 14·5	23 21·9	23 3·9	23 13·0	23 13·3		
,, ,,	12 51	13 52	G. S. J.	2	23 10·9	23 18·4	23 2·0	23 23·4	23 13·7		
MAR. 1	13 52	14 50	G. S. J.	1	23 12·5	23 19·9	23 3·4	23 13·4	23 12·3		
,, ,,	15 0	15 55	G. S. J.	2	23 8·7	23 17·9	23 5·2	23 16·7	23 12·1		
,, 5	11 45	12 46	G. S. J.	1	23 9·5	23 16·2	22 58·4	23 6·0	23 7·5		
,, ,,	12 56	13 51	G. S. J.	2	23 6·4	23 10·7	23 3·8	23 11·1	23 8·0		
,, 8	13 50	14 50	G. S. J.	1	23 13·2	23 22·1	22 58·7	23 12·9	23 11·7		
,, ,,	15 0	15 55	G. S. J.	2	23 10·4	23 18·4	23 5·7	23 14·2	23 12·2	No. 1	
,, 12	11 26	12 25	G. S. J.	1	23 13·5	23 22·1	23 7·8	23 12·5	23 14·0	° ′	
,, ,,	12 36	13 32	G. S. J.	2	23 13·6	23 20·7	23 9·8	23 16·1	23 15·0	23 12·1	
,, 15	13 56	14 56	G. S. J.	1	23 15·6	23 19·6	23 7·2	23 10·2	23 13·1		
,, ,,	15 5	16 2	G. S. J.	2	23 13·4	23 18·6	23 8·3	23 14·2	23 13·6		23 12·3
,, 19	11 40	12 41	G. S. J.	1	23 11·7	23 17·5	23 2·1	23 8·9	23 10·0		
,, ,,	12 51	13 48	G. S. J.	2	23 9·3	23 16·0	23 5·6	23 12·9	23 10·9	No. 2	
,, 22	13 52	14 50	G. S. J.	1	23 17·1	23 22·1	23 7·5	23 12·9	23 14·9	° ′	
,, ,,	14 58	15 54	G. S. J.	2	23 13·9	23 20·8	23 9·5	23 15·4	23 14·9	23 12·5	
,, 26	11 26	12 27	G. S. J.	1	23 14·8	23 16·6	23 7·2	23 9·7	23 12·1		
,, ,,	12 40	13 34	G. S. J.	2	23 11·6	23 17·1	23 8·1	23 13·0	23 12·4		
,, 29	13 50	14 48	G. S. J.	1	23 11·5	23 23·1	23 6·2	23 12·4	23 13·3		
,, ,,	14 57	15 52	G. S. J.	2	23 10·4	23 20·5	23 6·7	23 16·5	23 13·5		
APR. 2	11 42	12 43	G. S. J.	1	23 13·4	23 17·9	23 2·4	23 10·2	23 11·0		
,, ,,	12 53	13 50	G. S. J.	2	23 4·2	23 17·9	23 5·9	23 13·1	23 10·3		
,, 5	13 48	14 45	G. S. J.	1	23 15·2	23 22·1	23 4·1	23 13·4	23 13·7		
,, ,,	14 54	15 51	G. S. J.	2	23 14·7	23 16·7	23 7·6	23 15·2	23 13·4		
,, 9	11 43	12 43	G. S. J.	1	23 13·7	23 19·8	23 2·2	23 10·2	23 11·5		
,, ,,	12 53	13 49	G. S. J.	2	23 10·6	23 20·2	23 6·2	23 14·3	23 12·8	No. 1	
,, 12	13 54	14 53	G. S. J.	1	23 14·4	23 21·4	23 4·4	23 14·1	23 13·6	° ′	
,, ,,	15 3	16 0	G. S. J.	2	23 10·0	23 21·6	23 6·1	23 19·1	23 14·2	23 12·9	
,, 16	11 32	12 28	G. S. J.	1	23 13·0	23 19·4	23 3·5	23 11·4	23 11·8		
,, ,,	12 38	13 33	G. S. J.	2	23 10·4	23 18·7	23 5·5	23 15·3	23 12·5		23 13·2
,, 19	13 51	14 48	G. S. J.	1	23 14·5	23 23·9	23 4·7	23 14·1	23 14·3		
,, ,,	14 57	15 52	G. S. J.	2	23 12·7	23 22·7	23 8·4	23 19·4	23 15·8	No. 2	
,, 24	11 45	12 44	G. S. J.	1	23 14·6	23 19·6	23 5·3	23 15·0	23 13·6	° ′	
,, ,,	12 53	13 50	G. S. J.	2	23 11·2	23 19·8	23 5·9	23 17·4	23 13·6	23 13·4	
,, 26	13 54	14 51	G. S. J.	1	23 15·8	23 25·2	23 4·9	23 16·2	23 15·5		
,, ,,	15 0	15 55	G. S. J.	2	23 13·0	23 24·1	23 7·7	23 18·1	23 15·7		
,, 30	11 44	12 42	G. S. J.	1	23 11·5	23 19·4	23 2·5	23 12·1	23 11·4		
,, ,,	12 52	13 48	G. S. J.	2	23 9·4	23 20·6	23 4·4	23 15·2	23 12·4		

1907. Date.	Alibag Civil Time (0 to 24 hours) — At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		° ′
MAY 3	13 55	14 53	G. S. J.	1	23 16·2	23 22·2	23 3·8	23 12·1	23 13·6		
,, ,,	15 2	15 58	G. S. J.	2	23 10·6	23 21·7	23 6·5	23 17·2	23 14·0		
,, 7	11 46	12 45	G. S. J.	1	23 13·4	23 21·6	23 2·9	23 12·1	23 12·5		
,, ,,	12 54	13 50	G. S. J.	2	23 11·0	23 20·6	23 7·1	23 16·5	23 13·8		
,, 10	13 53	14 50	G. S. J.	1	23 14·3	23 22·4	23 5·4	23 14·9	23 14·2		
,, ,,	15 0	15 55	G. S. J.	2	23 11·6	23 20·4	23 6·6	23 16·8	23 13·8	No. 1	
,, 14	11 43	12 43	G. S. J.	1	23 13·9	23 20·7	23 6·0	23 13·6	23 13·5	° ′	
,, ,,	12 52	13 48	G. S. J.	2	23 11·2	23 21·1	23 7·7	23 17·6	23 14·4	23 13·8	
,, 17	13 55	14 51	G. S. J.	1	23 15·9	23 22·5	23 6·1	23 14·8	23 14·8		
,, ,,	15 0	15 55	G. S. J.	2	23 16·5	23 18·6	23 10·6	23 14·4	23 15·0		23 14·2
,, 21	11 32	12 28	G. S. J.	1	23 16·2	23 18·0	23 8·7	23 11·0	23 13·5		
,, ,,	12 38	13 33	G. S. J.	2	23 13·4	23 21·3	23 8·0	23 16·6	23 14·8	No. 2	
,, 24	13 50	14 47	G. S. J.	1	23 21·1	23 23·2	23 8·6	23 12·6	23 16·4	° ′	
,, ,,	14 57	15 52	G. S. J.	2	23 14·4	23 23·0	23 11·2	23 18·0	23 16·6	23 14·5	
,, 28	11 44	12 45	G. S. J.	1	23 11·7	23 21·1	23 2·4	23 11·7	23 11·7		
,, ,,	12 54	13 50	G. S. J.	2	23 11·6	23 22·6	23 3·9	23 15·2	23 13·3		
,, 31	13 52	14 50	G. S. J.	1	23 13·7	23 21·5	23 8·0	23 13·6	23 14·2		
,, ,,	14 58	15 54	G. S. J.	2	23 11·2	23 21·8	23 9·7	23 17·3	23 15·0		
JUNE 4	11 58	12 58	G. S. J.	1	23 10·4	23 19·6	23 3·5	23 11·4	23 11·2		
,, ,,	13 8	14 3	G. S. J.	2	23 13·3	23 19·7	23 8·2	23 14·6	23 13·9		
,, 7	13 48	14 45	G. S. J.	1	23 16·9	23 26·1	23 4·9	23 15·4	23 15·8		
,, ,,	14 55	15 51	G. S. J.	2	23 12·6	23 25·5	23 8·2	23 17·6	23 16·0		
,, 11	11 20	12 22	G. S. J.	1	23 8·3	23 21·2	23 1·7	23 14·4	23 11·4	No. 1	
,, ,,	12 37	13 36	G. S. J.	2	23 11·4	23 19·5	23 7·4	23 15·2	23 13·4	° ′	
,, 14	14 10	15 6	G. S. J.	1	23 11·5	23 24·8	23 4·4	23 15·5	23 14·0	23 13·3	
,, ,,	15 15	16 23	G. S. J.	2	23 14·5	23 23·4	23 7·8	23 17·1	23 15·7		
,, 18	11 32	12 38	G. S. J.	1	23 12·1	23 23·7	23 2·6	23 16·0	23 13·6		23 14·0
,, ,,	12 50	13 48	G. S. J.	2	23 12·2	23 20·4	23 7·1	23 16·4	23 14·0		
,, 21	13 53	14 53	G. S. J.	1	23 13·2	23 24·7	23 3·3	23 15·9	23 14·3	No. 2	
,, ,,	15 1	15 54	G. S. J.	2	23 14·8	23 22·7	23 7·9	23 17·9	23 15·8	° ′	
,, 25	11 23	12 26	G. S. J.	1	23 11·4	23 21·8	23 5·5	23 17·8	23 14·1	23 14·6	
,, ,,	12 37	13 33	G. S. J.	2	23 13·7	23 21·4	23 6·0	23 16·2	23 14·3		
,, 28	13 38	14 42	G. S. J.	1	23 10·1	23 23·2	22 59·4	23 14·5	23 11·8		
,, ,,	14 52	15 48	G. S. J.	2	23 12·4	23 23·7	23 5·2	23 15·3	23 14·1		
JULY 2	11 22	12 22	G. S. J.	1	23 10·9	23 23·1	23 0·1	23 14·2	23 12·1		
,, ,,	12 31	13 26	G. S. J.	2	23 11·3	23 20·6	23 5·2	23 18·7	23 13·9		
,, 5	13 48	14 47	G. S. J.	1	23 10·2	23 23·7	23 2·8	23 17·8	23 13·6		
,, ,,	14 56	15 52	G. S. J.	2	23 12·4	23 24·5	23 5·1	23 17·9	23 15·0		
,, 9	11 18	12 19	G. S. J.	1	23 14·3	23 23·6	23 1·2	23 16·3	23 13·8		
,, ,,	12 28	13 22	G. S. J.	2	23 11·8	23 22·0	23 5·4	23 16·4	23 13·9	No. 1	
,, 12	13 51	14 49	G. S. J.	1	23 16·3	23 26·4	23 5·3	23 17·2	23 16·3	° ′	
,, ,,	14 58	15 54	G. S. J.	2	23 13·6	23 25·2	23 9·2	23 18·2	23 16·5	23 14·1	
,, 16	11 25	12 22	G. S. J.	1	23 12·9	23 21·9	23 3·1	23 12·6	23 12·6		
,, ,,	12 32	13 25	G. S. J.	2	23 10·2	23 20·1	23 4·7	23 15·3	23 12·6		23 14·5
,, 19	14 15	15 16	G. S. J.	1	23 16·2	23 24·2	23 1·8	23 15·5	23 14·4		
,, ,,	15 25	16 18	G. S. J.	2	23 17·2	23 22·2	23 8·2	23 17·4	23 16·2	No. 2	
,, 23	11 27	12 28	G. S. J.	1	23 14·1	23 23·2	23 5·6	23 15·9	23 14·7	° ′	
,, ,,	12 37	13 32	G. S. J.	2	23 11·7	23 21·3	23 5·2	23 16·7	23 13·7	23 15·0	
,, 26	13 51	14 50	G. S. J.	1	23 14·8	23 25·0	23 6·2	23 15·6	23 15·4		
,, ,,	14 58	15 51	G. S. J.	2	23 14·9	23 26·4	23 8·3	23 21·1	23 17·7		
,, 30	11 22	12 20	G. S. J.	1	23 14·2	23 23·8	23 4·5	23 14·1	23 14·1		
,, ,,	12 30	13 27	G. S. J.	2	23 12·7	23 26·4	23 5·7	23 17·0	23 15·4		
AUG. 2	13 54	14 54	G. S. J.	1	23 13·9	23 25·5	23 5·6	23 16·4	23 15·3		
,, ,,	15 4	16 0	G. S. J.	2	23 14·8	23 23·9	23 10·6	23 16·0	23 16·3		
,, 6	11 38	12 44	G. S. J.	1	23 7·4	23 22·3	23 2·7	23 17·1	23 12·4		
,, ,,	12 54	13 50	G. S. J.	2	23 15·1	23 15·2	23 12·8	23 13·3	23 14·1		
,, 9	13 50	14 52	G. S. J.	1	23 9·9	23 24·1	23 5·6	23 20·7	23 15·1		
,, ,,	15 0	15 53	G. S. J.	2	23 15·2	23 18·5	23 9·4	23 18·0	23 15·3	No. 1	
,, 13	11 35	12 40	G. S. J.	1	23 13·9	23 23·7	23 2·2	23 13·6	23 13·3	° ′	
,, ,,	12 52	13 48	G. S. J.	2	23 11·1	23 18·9	23 7·7	23 17·8	23 13·9	23 13·8	
,, 16	13 52	14 50	G. S. J.	1	23 8·2	23 24·2	23 3·2	23 16·8	23 13·1		
,, ,,	14 58	15 52	G. S. J.	2	23 11·7	23 21·9	23 5·9	23 17·0	23 14·1		23 14·1
,, 20	11 33	12 42	G. S. J.	1	23 8·7	23 22·7	23 3·1	23 22·9	23 14·3		
,, ,,	12 53	13 50	G. S. J.	2	23 17·6	23 16·9	23 8·7	23 16·0	23 14·8	No. 2	
,, 23	13 38	14 43	G. S. J.	1	23 11·4	23 24·9	23 4·6	23 18·4	23 14·8	° ′	
,, ,,	14 53	15 50	G. S. J.	2	23 17·9	23 20·9	23 5·8	23 16·4	23 15·2	23 14·5	
,, 27	11 34	12 44	G. S. J.	1	23 9·1	23 20·7	23 0·9	23 18·4	23 12·3		
,, ,,	12 53	13 53	G. S. J.	2	23 12·2	23 15·7	23 6·1	23 17·4	23 12·8		
,, 30	13 50	14 51	G. S. J.	1	23 11·6	23 21·7	23 4·9	23 15·7	23 13·5		
,, ,,	15 0	15 53	G. S. J.	2	23 13·1	23 21·6	23 5·5	23 15·4	23 13·9		

1907. Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		° ′
SEPT. 3	11 28	12 28	G. S. J.	1	23 8·2	23 23·0	23 0·8	23 15·1	23 11·8		
„ „	12 37	13 30	G. S. J.	2	23 12·6	23 19·9	23 6·9	23 15·7	23 13·8		
„ 6	13 51	14 45	G. S. J.	1	23 15·5	23 26·8	23 4·4	23 17·8	23 16·1		
„ „	14 55	15 50	G. S. J.	2	23 17·6	23 24·1	23 9·1	23 17·7	23 17·1	No. 1	
„ 10	11 27	12 25	G. S. J.	1	23 10·1	23 21·9	23 1·5	23 12·3	23 11·4	° ′	
„ „	12 34	13 28	G. S. J.	2	23 9·0	23 19·9	23 7·2	23 14·7	23 12·7	23 14·8	
„ 13	13 54	14 50	G. S. J.	1	23 15·8	23 27·3	23 7·9	23 19·5	23 17·6		
„ „	14 58	15 52	G. S. J.	2	23 17·7	23 27·2	23 9·2	23 19·4	23 18·4		23 15·4
„ 17	11 25	12 24	G. S. J.	1	23 15·1	23 23·0	23 3·7	23 15·2	23 14·2		
„ „	12 33	13 27	G. S. J.	2	23 12·6	23 24·4	23 6·5	23 17·2	23 15·2		
„ 20	14 0	14 58	G. S. J.	1	23 17·4	23 22·9	23 5·8	23 18·2	23 16·1	No. 2	
„ 15	8	16 20	G. S. J.	2	23 11·7	23 26·9	23 6·0	23 26·7	23 17·8	° ′	
„ 24	11 24	12 23	G. S. J.	1	23 12·3	23 24·3	23 4·6	23 12·7	23 13·5	23 15·9	
„ „	12 32	13 26	G. S. J.	2	23 12·4	23 22·6	23 6·1	23 17·5	23 14·6		
„ 27	13 50	14 48	G. S. J.	1	23 16·7	23 26·5	23 10·7	23 18·1	23 18·0		
„ „	14 57	15 50	G. S. J.	2	23 16·2	23 22·4	23 11·6	23 21·0	23 17·8		
OCT. 1	11 50	12 48	G. S. J.	1	23 17·8	23 24·1	23 8·1	23 16·0	23 16·5		
„ „	12 57	13 51	G. S. J.	2	23 16·4	23 23·6	23 12·7	23 20·7	23 18·3		
„ 4	13 51	14 48	G. S. J.	1	23 18·2	23 27·3	23 7·2	23 18·3	23 17·7		
„ „	14 57	15 53	G. S. J.	2	23 15·3	23 26·6	23 10·2	23 20·4	23 18·1		
„ 8	11 33	12 32	G. S. J.	1	23 11·6	23 21·2	23 3·7	23 16·2	23 13·2	No. 1	
„ „	12 41	13 32	G. S. J.	2	23 13·1	23 22·9	23 5·2	23 19·0	23 15·0	° ′	
„ 11	13 52	14 50	G. S. J.	1	23 11·7	23 28·9	23 3·7	23 22·5	23 16·7	23 16·4	
„ „	15 0	15 53	G. S. J.	2	23 15·5	23 23·1	23 8·2	23 22·1	23 17·2		
„ 16	11 48	12 45	G. S. J.	1	23 19·2	23 24·2	23 5·7	23 13·9	23 15·7		
„ „	12 55	13 52	G. S. J.	2	23 16·7	23 19·2	23 12·6	23 19·8	23 17·1		23 16·8
„ 18	13 50	14 48	G. S. J.	1	23 23·9	23 21·2	23 11·3	23 21·4	23 19·4		
„ „	14 58	15 54	G. S. J.	2	23 17·7	23 24·4	23 11·9	23 20·1	23 18·5	No. 2	
„ 23	11 48	12 47	G. S. J.	1	23 14·8	23 19·2	23 10·4	23 17·3	23 15·4	° ′	
„ „	12 56	13 51	G. S. J.	2	23 17·9	23 21·7	23 10·7	23 19·1	23 17·3	23 17·2	
„ 25	13 51	14 50	G. S. J.	1	23 20·3	23 23·1	23 10·5	23 13·2	23 16·8		
„ 14	58	15 53	G. S. J.	2	23 17·4	23 23·2	23 10·5	23 17·4	23 17·1		
„ 29	11 30	12 26	G. S. J.	1	23 28·0	23 17·4	23 6·9	23 11·2	23 15·9		
„ „	12 36	13 30	G. S. J.	2	23 13·4	23 23·2	23 8·6	23 19·1	23 16·1		
NOV. 1	13 52	14 48	G. S. J.	1	23 23·0	23 21·9	23 8·2	23 17·7	23 17·7		
„ „	14 58	15 53	G. S. J.	2	23 15·1	23 27·1	23 9·2	23 19·1	23 17·6		
„ 5	11 50	12 52	G. S. J.	1	23 20·9	23 21·9	23 9·3	23 18·9	23 17·7		
„ „	13 0	13 54	G. S. J.	2	23 14·6	23 25·0	23 8·7	23 22·9	23 17·8		
„ 8	13 53	14 50	G. S. J.	1	23 23·9	23 27·2	23 11·9	23 16·4	23 19·8	No. 1	
„ „	15 0	15 54	G. S. J.	2	23 15·2	23 23·9	23 9·5	23 17·5	23 16·5	° ′	
„ 12	11 28	12 25	G. S. J.	1	23 19·7	23 26·6	23 10·1	23 20·3	23 19·2	23 18·3	
„ „	12 34	13 30	G. S. J.	2	23 16·8	23 27·7	23 11·6	23 19·2	23 18·8		
„ 15	13 50	14 45	G. S. J.	1	23 18·2	23 24·2	23 9·8	23 19·0	23 17·8		23 17·9
„ „	14 56	15 50	G. S. J.	2	23 12·9	23 24·4	23 9·1	23 20·1	23 16·6		
„ 19	11 48	12 48	G. S. J.	1	23 17·9	23 27·1	23 4·0	23 22·9	23 18·0		
„ „	12 57	13 52	G. S. J.	2	23 14·0	23 26·2	23 9·4	23 21·7	23 17·8	No. 2	
„ 22	13 51	14 52	G. S. J.	1	23 18·7	23 29·9	23 7·8	23 22·4	23 19·7	° ′	
„ 15	0	15 55	G. S. J.	2	23 15·4	23 27·7	23 11·1	23 24·4	23 19·6	23 17·5	
„ 26	11 30	12 28	G. S. J.	1	23 17·4	23 7·3	23 7·3	23 13·5	23 16·4		
„ „	12 37	13 33	G. S. J.	2	23 12·6	23 24·7	23 8·7	23 21·2	23 16·8		
„ 29	13 49	14 51	G. S. J.	1	23 20·7	23 29·6	23 9·6	23 15·1	23 18·7		
„ 15	0	15 54	G. S. J.	2	23 13·4	23 25·2	23 9·5	23 16·4	23 16·1		
DEC. 3	11 24	12 25	G. S. J.	1	23 15·1	23 28·1	23 5·2	23 20·6	23 17·2		
„ „	12 35	13 30	G. S. J.	2	23 14·4	23 24·8	23 10·0	23 14·1	23 15·8		
„ 6	13 52	14 50	G. S. J.	1	23 15·4	23 30·1	23 7·3	23 24·6	23 19·3		
„ „	14 59	15 53	G. S. J.	2	23 18·0	23 25·1	23 9·3	23 19·1	23 17·9		
„ 10	11 26	12 23	G. S. J.	1	23 17·1	23 28·4	23 5·1	23 20·4	23 17·7	No. 1	
„ „	12 34	13 29	G. S. J.	2	23 15·1	23 21·3	23 9·7	23 19·7	23 16·4	° ′	
„ 13	13 48	14 47	G. S. J.	1	23 18·2	23 29·9	23 8·0	23 21·6	23 19·4	23 18·5	
„ „	14 56	15 51	G. S. J.	2	23 19·5	23 27·2	23 11·7	23 19·6	23 19·5		
„ 17	11 30	12 28	G. S. J.	1	23 19·0	23 29·8	23 10·5	23 23·7	23 20·7		23 18·3
„ „	12 38	13 32	G. S. J.	2	23 16·8	23 28·9	23 10·7	23 20·5	23 19·2		
„ 20	13 52	14 51	G. S. J.	1	23 18·9	23 28·0	23 8·6	23 19·8	23 18·8		
„ „	15 0	15 55	G. S. J.	2	23 14·9	23 28·7	23 10·2	23 24·4	23 19·5	No. 2	
„ 24	11 26	12 26	G. S. J.	1	23 16·5	23 25·9	23 4·6	23 17·1	23 16·0	° ′	
„ „	12 35	13 30	G. S. J.	2	23 14·7	23 19·6	23 9·5	23 19·0	23 15·7	23 18·0	
„ 27	13 50	14 47	G. S. J.	1	23 19·2	23 30·9	23 5·9	23 21·6	23 19·4		
„ „	14 57	15 52	G. S. J.	2	23 16·2	23 25·1	23 12·3	23 22·1	23 18·9		
„ 31	11 48	12 48	G. S. J.	1	23 15·4	23 26·9	23 8·6	23 21·1	23 18·0		
„ „	12 56	13 53	G. S. J.	2	23 16·5	23 29·6	23 13·2	23 17·9	23 19·3		

The mean Dip for the year ... { With Needle No. 1 = 23 14·2 / With Needle No. 2 = 23 14·8

The mean* observed Dip for the year 1907 = 23 14·5

* The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table IIIb.

SUPPLEMENTARY OBSERVATIONS OF INCLINATION, 1907.

Taken with Dip Circle No. 160 (Cambridge Scientific Instrument Co.) and two Supplementary 3½-inch Needles Nos. 1 and 2 (Dover C.)

1907. Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		° ′
JAN. 5	11 25	12 18	G. S. J.	2	23 4·7	23 11·4	23 5·0	23 9·8	23 7·7	No. 1	
„ 12	11 28	12 24	G. S. J.	1	23 1·7	23 4·9	23 16·4	23 22·9	23 11·5	23 10·9	23 10·0
„ 19	11 30	12 23	G. S. J.	2	23 10·4	23 12·2	23 7·9	23 11·1	23 10·4	No. 2	
„ 26	11 30	12 24	G. S. J.	1	23 0·4	23 4·6	23 16·1	23 20·4	23 10·4	23 9·0	
FEB. 2	12 3	13 0	G. S. J.	2	23 10·4	23 14·0	23 7·2	23 11·0	23 10·6	No. 1	
„ 9	11 32	12 25	G. S. J.	1	23 0·9	23 5·2	23 19·3	23 24·1	23 12·4	23 11·6	23 11·8
„ 16	11 34	12 28	G. S. J.	2	23 12·0	23 14·6	23 9·9	23 17·5	23 13·5	No. 2	
„ 23	11 30	12 28	G. S. J.	1	22 59·1	23 5·3	23 16·7	23 22·6	23 10·9	23 12·0	
MAR. 2	11 28	12 25	G. S. J.	2	23 10·2	23 14·5	23 6·7	23 14·2	23 11·4		
„ 9	11 0	11 55	G. S. J.	1	22 56·6	23 4·2	23 15·6	23 21·6	23 9·5	No. 1	
„ 16	11 14	12 15	G. S. J.	2	23 11·2	23 17·6	23 5·1	23 15·6	23 12·4	23 10·8	23 11·4
„ 23	11 29	12 25	G. S. J.	1	23 3·9	23 7·9	23 15·1	23 21·6	23 12·1	No. 2	
„ 30	11 31	12 25	G. S. J.	2	23 7·2	23 17·9	23 5·7	23 16·6	23 11·8	23 11·9	
APRIL 6	11 34	12 27	G. S. J.	1	23 0·1	23 9·1	23 13·0	23 22·6	23 11·2	No. 1	
„ 13	11 25	12 22	G. S. J.	2	23 0·7	23 14·0	23 8·9	23 15·1	23 11·9	23 11·8	23 12·2
„ 20	11 33	12 30	G. S. J.	1	23 2·9	23 9·0	23 14·7	23 22·0	23 12·4	No. 2	
„ 27	11 27	12 30	G. S. J.	2	23 10·2	23 18·6	23 8·5	23 15·4	23 13·2	23 12·5	
MAY 4	11 34	12 28	G. S. J.	1	23 0·8	23 7·1	23 18·8	23 24·8	23 12·9	No. 1	
„ 11	11 32	12 29	G. S. J.	2	23 9·9	23 14·7	23 8·7	23 13·8	23 11·8	23 12·0	23 12·6
„ 18	11 36	12 32	G. S. J.	1	23 1·1	23 8·0	23 14·0	23 21·2	23 11·1	No. 2	
„ 25	11 30	12 26	G. S. J.	2	23 16·9	23 15·8	23 9·6	23 16·1	23 14·6	23 13·2	
JUNE 1	11 20	12 13	G. S. J.	1	23 3·6	23 9·9	23 17·1	23 24·5	23 13·8		
„ 8	11 30	12 32	G. S. J.	2	23 14·6	23 17·9	23 10·9	23 16·4	23 14·9	No. 1	
„ 15	11 26	12 27	G. S. J.	1	23 1·5	23 8·0	23 18·0	23 25·4	23 13·2	23 13·3	23 13·8
„ 22	11 30	12 25	G. S. J.	2	23 14·2	23 18·3	23 10·0	23 15·5	23 14·5	No. 2	
„ 29	11 24	12 25	G. S. J.	1	22 58·2	23 8·8	23 18·7	23 25·6	23 12·8	23 14·7	
JULY 6	11 23	12 18	G. S. J.	2	23 9·5	23 17·7	23 9·7	23 17·3	23 13·5	No. 1	
„ 13	11 23	12 17	G. S. J.	1	23 1·2	23 8·3	23 18·6	23 26·6	23 13·7	23 13·3	23 13·5
„ 20	11 21	12 16	G. S. J.	2	23 11·9	23 18·1	23 8·9	23 16·6	23 13·9	No. 2	
„ 27	11 26	12 23	G. S. J.	1	22 57·1	23 11·8	23 14·9	23 28·0	23 12·9	23 13·7	

1907. Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		° ′
Aug. 3	11 22	12 25	G. S. J.	2	23 15·6	23 15·2	23 6·4	23 20·5	23 14·4	No. 1	
,, 10	11 25	12 20	G. S. J.	1	23 0·9	23 12·0	23 17·1	23 29·1	23 14·8	° ′ 23 14·8	
,, 17	11 30	12 38	G. S. J.	2	23 13·9	23 14·5	23 11·6	23 14·6	23 13·6	No. 2	23 14·6
,, 24	11 22	12 18	G. S. J.	1	22 59·1	23 13·4	23 19·1	23 27·6	23 14·8	° ′ 23 14·4	
,, 31	11 25	12 21	G. S. J.	2	23 13·7	23 20·1	23 10·7	23 16·5	23 15·2		
Sept. 7	11 25	12 20	G. S. J.	1	23 0·4	23 11·2	23 14·8	23 30·7	23 14·3	No. 1	
,, 14	11 28	12 24	G. S. J.	2	23 11·3	23 18·4	23 10·2	23 15·4	23 13·8	° ′ 23 14·0	
,, 21	11 20	12 17	G. S. J.	1	23 0·1	23 12·7	23 15·8	23 26·3	23 13·7	No. 2	23 14·1
,, 28	11 26	12 22	G. S. J.	2	23 12·6	23 18·6	23 9·9	23 17·9	23 14·7	° ′ 23 14·2	
Oct. 5	11 24	12 20	G. S. J.	1	23 0·4	23 12·9	23 14·7	23 31·7	23 14·9	No. 1	
,, 12	11 25	12 23	G. S. J.	2	23 7·1	23 26·1	23 6·3	23 20·2	23 14·9	° ′ 23 14·4	
,, 19	11 22	12 18	G. S. J.	1	23 5·4	23 5·9	23 15·4	23 28·9	23 13·9	No. 2	23 15·4
,, 26	11 28	12 22	G. S. J.	2	23 13·6	23 23·4	23 12·4	23 22·0	23 17·8	° ′ 23 16·3	
Nov. 2	11 27	12 20	G. S. J.	1	23 1·9	23 15·4	23 17·4	23 29·7	23 16·1	No. 1	
,, 9	11 26	12 20	G. S. J.	2	23 13·9	23 21·7	23 10·0	23 21·9	23 16·8	° ′ 23 17·0	
,, 16	11 28	12 22	G. S. J.	1	23 2·6	23 15·5	23 18·8	23 31·1	23 17·0	No. 2	23 17·4
,, 23	11 30	12 24	G. S. J.	2	23 16·7	23 22·3	23 16·1	23 21·2	23 19·1	° ′ 23 17·9	
,, 30	11 30	12 25	G. S. J.	1	23 0·9	23 17·9	23 18·0	23 34·8	23 17·9		
Dec. 7	11 32	12 25	G. S. J.	2	23 16·9	23 21·1	23 11·2	23 17·2	23 16·6	No. 1	
,, 14	11 30	12 24	G. S. J.	1	23 6·3	23 17·1	23 22·3	23 32·1	23 19·4	° ′ 23 19·7	
,, 21	11 30	12 27	G. S. J.	2	23 17·8	23 22·4	23 13·1	23 25·6	23 19·7	No. 2	23 18·9
,, 28	11 28	12 23	G. S. J.	1	23 3·1	23 17·0	23 25·0	23 35·2	23 20·1	° ′ 23 18·1	

The mean Dip for the year ... { With Needle No. 1 = ° ′ 23 13·6 ; With Needle No. 2 = 23 14·0 }

° ′

The mean observed Dip for the year 1907 = 23 13·8

Absolute Magnetical Observations, Alibag—Table Ia.

Observations of Vibration and Deflection, taken with Magnetometer No. 7 (T. Cooke and Sons) for the determination of Absolute Horizontal Force.

1908.

1908. Date.	Vibration Magnet. Civil. Time, Mean.	Time of one Vibration	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Angle of Deflection of Magnet marked 7. Distance. 22·5 cms.	30·0 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Observer.	Calculated Results in C. G. S. Unit. Values of H. Values of m.	From Deflection at distance. 22·5 cms. ($H_{22·5}$)	30·0 cms. ($H_{30·0}$)	Difference. $H_{22·5} - H_{30·0}$	Mean. $\frac{H_{22·5} + H_{30·0}}{2}$	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div	°	S.	cms.	″	° ′ ″	° ′ ″	°	cms.	°							
JAN. 1	12 30	2·7047	1·37	26·0	+0·9	8·825	84·8	26 39 42	10 50 36	26·3	8·821	84·8	G. S. J.	939·12	0·36886	0·36888	−·00002	0·36887	
,, ,,	15 11	2·7055	1·38	27·1	,,	8·587	84·8	26 39 41	10 50 38	26·9	8·652	84·8	G. S. J.	939·23	·36879	·36879	·00000	·36879	
,, 8	12 25	2·7053	1·38	26·2	+1·3	8·177	84·1	26 41 22	10 51 15	26·5	8·039	84·1	G. S. J.	939·49	·36860	·36861	−·00001	·36860	
,, ,,	15 14	2·7068	1·41	27·1	,,	7·821	84·1	26 41 34	10 51 19	26·8	7·843	84·1	G. S. J.	939·29	·36843	·36843	·00000	·36843	
,, 15	12 40	2·7040	1·39	25·7	+1·3	8·677	83·6	26 40 50	10 51 7	25·4	8·572	83·6	G. S. J.	939·46	·36890	·36888	+·00002	·36889	·368730
,, ,,	14 57	2·7045	1·38	25·8	,,	8·402	83·6	26 40 56	10 51 8	25·7	8·483	83·6	G. S. J.	939·40	·36880	·36879	+·00001	·36879	
,, 22	12 29	2·7037	1·39	26·1	+0·9	9·160	83·3	26 39 12	10 50 30	26·3	8·997	83·3	G. S. J.	939·38	·36905	·36904	+·00001	·36904	
,, ,,	14 54	2·7054	1·39	27·2	,,	8·322	83·3	26 39 36	10 50 38	26·8	8·612	83·3	G. S. J.	939·27	·36883	·36882	+·00001	·36882	
,, 29	12 24	2·7039	1·36	25·7	+1·1	8·286	83·2	26 41 20	10 51 7	25·8	8·250	83·2	G. S. J.	939·66	·36882	·36887	−·00005	·36884	
,, ,,	15 11	2·7068	1·38	26·2	,,	6·983	83·2	26 43 28	10 51 59	26·0	7·079	83·2	G. S. J.	939·40	·36822	·36825	−·00003	·36823	
FEB. 5	12 27	2·7025	1·38	23·0	+1·1	8·452	82·3	26 43 27	10 52 6	23·2	8·197	82·3	G. S. J.	939·57	·36879	·36878	+·00001	·36878	
,, ,,	15 10	2·7040	1·38	24·0	,,	8·088	82·3	26 43 36	10 52 6	23·7	8·024	82·3	G. S. J.	939·44	·36860	·36861	−·00001	·36860	
,, 12	12 31	2·7048	1·39	26·2	+1·0	8·297	82·8	26 40 31	10 50 56	25·7	8·455	82·8	G. S. J.	939·25	·36883	·36884	−·00001	·36883	
,, ,,	15 11	2·7055	1·39	26·5	,,	7·926	82·8	26 40 36	10 51 1	26·2	8·201	82·8	G. S. J.	939·20	·36871	·36870	+·00001	·36870	
,, 19	12 19	2·7046	1·39	26·7	+0·5	8·681	83·0	26 39 22	10 50 30	26·7	8·616	83·0	G. S. J.	939·33	·36894	·36894	·00000	·36894	·368799
,, ,,	15 12	2·7052	1·40	27·3	,,	8·236	83·0	26 39 19	10 50 30	27·1	8·387	83·0	G. S. J.	939·33	·36888	·36887	+·00001	·36887	
,, 26	12 21	2·7045	1·38	26·8	+0·9	8·512	83·2	26 39 25	10 50 33	26·8	8·427	83·2	G. S. J.	939·42	·36894	36894	·00000	·36894	
,, ,,	15 14	2·7058	1·38	27·0	,,	8·057	83·2	26 39 38	10 50 40	27·0	8·187	83·2	G. S. J.	939·14	·36874	·36872	+·00002	·36873	
MAR. 5	12 27	2·7044	1·39	25·8	+0·7	7·996	83·2	26 41 8	10 51 11	25·9	7·949	83·2	G. S. J.	939·51	·36877	·36877	·00000	·36877	
,, ,,	15 13	2·7061	1·37	26·2	,,	7·425	83·2	26 41 26	10 51 19	26·1	7·712	83·2	G. S. J.	939·14	·36853	·36852	+·00001	·36852	
,, 11	13 43	2·7046	1·41	26·4	+0·5	8·465	83·6	26 40 17	10 50 55	26·2	8·172	83·6	G. S. J.	939·42	·36886	·36884	+·00002	·36885	
,, ,,	15 11	2·7050	1·41	26·1	,,	7·952	83·6	26 40 20	10 50 51	26·3	8·045	83·6	G. S. J.	939·20	·36876	·36877	−·00001	·36876	·368829
,, 18	12 23	2·7035	1·42	26·3	+0·5	8·770	84·0	26 38 5	10 50 0	26·6	8·551	84·0	N.	939·23	·36919	·36920	−·00001	·36919	
,, ,,	15 16	2·7055	1·42	27·1	,,	7·735	84·0	26 39 32	10 50 36	26·9	7·842	84·0	N.	939·18	·36881	·36880	+·00001	·36880	
,, 25	11 52	2·7050	1·42	27·1	+0·5	8·162	84·7	26 38 29	10 50 9	27·6	8·077	84·7	N.	939·23	·36892	·36893	−·00001	·36892	
,, ,,	14 55	2·7051	1·43	27·2	,,	7·505	84·7	26 39 26	10 50 32	27·5	7·707	84·7	N.	939·46	·36882	·36882	·00000	·36882	

1908.			Vibration Magnet.				Corresponding Mean Reading of H. F. Magnetograph		Angle of Deflection of Magnet marked 7.			Corresponding Mean Reading of H. F. Magnetograph.		Calculated Results in C. G. S. Unit.					
									Distance.						Values of H.				
Date.	Civil Time, Mean.		Time of one Vibration	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Ordinate.	Thermometer.	22·5 cms.	30·0 cms.	Temperature.	Ordinate.	Thermometer.	Observer.	Values of m.	From Deflection at distance. 22·5 cms. ($H_{22\cdot5}$)	From Deflection at distance. 30·0 cms. ($H_{30\cdot0}$)	Difference. $H_{22\cdot5} - H_{30\cdot0}$	Mean. $\frac{H_{22\cdot5} + H_{30\cdot0}}{2}$	Observed Monthly Mean Values of H.
1	2		3	4	5	6	7	8	9		10	11	12	13	14	15	16	17	18	19	20
	H.	m.	S.	Sc. div.	°	S.	cms.	°	° ′ ″		° ′ ″	°	cms.	°							
Apl. 1	12	28	2·7076	1·44	30·2	+0·2	7·335	85·7	26 38 9		10 50 7	30·0	7·182	85·7	N.	939·53	0·36865	0·36864	+·00001	0·36864	
,,	15	33	2·7093	1·43	30·4	,,	6·537	85·7	26 39 37		10 50 31	30·5	6·485	85·7	N.	939·42	·36824	·36826	−·00002	·36825	
,, 8	12	22	2·7071	1·44	29·8	+0·5	7·367	86·8	26 37 45		10 50 0	29·6	7·258	86·8	N.	939·42	·36877	·36874	+·00003	·36875	
,, ,,	14	54	2·7088	1·43	30·1	,,	6·807	86·8	26 37 46		10 49 56	30·0	6·995	86·8	N.	938·97	·36852	·36851	+·00001	·36851	
,, 15	12	20	2·7082	1·39	30·8	+0·6	7·275	87·5	26 37 3		10 49 36	30·5	7·095	87·6	G. S. J.	939·23	·36871	·36871	·00000	·36871	·368648
,, ,,	14	56	2·7099	1·42	30·5	,,	6·100	87·6	26 38 45		10 50 17	30·5	6·455	87·6	G. S. J.	939·05	·36826	·36826	·00000	·36826	
,, 22	12	24	2·7068	1·40	30·4	+0·8	7·841	88·3	26 35 20		10 49 8	30·2	7·850	88·3	G. S. J.	939·14	·36906	·36901	+·00005	·36903	
,, ,,	15	13	2·7080	1·38	30·8	,,	7·195	88·4	26 36 5		10 49 16	30·4	7·437	88·3	G. S. J.	939·03	·36884	·36884	·00000	·36884	
,, 29	12	33	2·7071	1·40	29·8	0·0	7·407	89·2	26 36 36		10 49 25	29·8	7·327	89·2	G. S. J.	939·12	·36888	·36889	−·00001	·36888	
,, ,,	15	13	2·7079	1·39	29·8	,,	6·663	89·2	26 37 57		10 49 58	29·9	6·787	89·2	G. S. J.	939·25	·36862	·36861	+·00001	·36861	
May 6	12	31	2·7063	1·40	29·8	+0·4	7·522	90·0	26 36 20		10 49 26	29·6	7·306	90·0	G. S. J.	939·29	·36903	·36901	+·00002	·36902	
,, ,,	14	53	2·7077	1·40	29·7	,,	6·645	90·0	26 37 17		10 49 38	29·8	6·925	90·0	G. S. J.	939·05	·36871	·36873	−·00002	·36872	
,, 13	12	0	2·7090	1·41	30·9	+0·6	6·282	90·7	26 36 50		10 49 39	30·9	6·345	90·7	G. S. J.	939·05	·36859	·36855	+·00004	·36857	
,, ,,	14	48	2·7090	1·41	31·0	,,	6·162	90·7	26 36 57		10 49 38	30·9	6·256	90·7	G. S. J.	939·10	·36859	·36857	+·00002	·36858	·368785
,, 20	12	35	2·7070	1·39	30·5	+0·2	7·202	91·2	26 35 13		10 49 4	30·5	7·030	91·2	G. S. J.	939·14	·36904	·36899	+·00005	·36901	
,, ,,	14	56	2·7081	1·39	30·7	,,	6·471	91·2	26 35 55		10 49 16	30·5	6·702	91·2	G. S. J.	938·97	·36883	·36882	+·00001	·36882	
,, 28	12	21	2·7079	1·40	30·1	+0·3	6·248	91·9	26 36 28		10 49 26	30·3	6·483	91·9	G. S. J.	938·99	·36877	·36876	+·00001	·36876	
,, ,,	15	12	2·7082	1·41	30·8	,,	6·430	91·9	26 35 45		10 49 11	30·9	6·617	91·9	G. S. J.	939·01	·36881	·36879	+·00002	·36880	
June 3	12	24	2·7061	1·40	31·6	+0·6	7·758	92·1	26 33 6		10 48 10	31·5	7·590	92·1	G. S. J.	939·33	·36940	·36939	+·00001	·36939	
,, ,,	14	57	2·7082	1·40	31·7	,,	6·642	92·1	26 33 39		10 48 30	31·7	7·131	92·1	G. S. J.	938·86	·36904	·36899	+·00005	·36901	
,, 10	12	28	2·7074	1·40	32·0	0·0	6·960	92·9	26 33 48		10 48 32	31·6	7·028	92·9	G. S. J.	939·23	·36916	·36912	+·00004	·36914	
,, ,,	15	13	2·7082	1·40	31·3	,,	6·312	92·9	26 34 44		10 48 42	31·9	6·562	92·9	G. S. J.	939·03	·36887	·36888	−·00001	·36887	
,, 17	12	10	2·7045	1·41	28·6	+0·6	7·345	92·0	26 36 7		10 49 17	28·9	7·007	92·0	G. S. J.	939·42	·36926	·36925	+·00001	·36925	·369089
,, ,,	15	12	2·7066	1·40	29·2	,,	6·247	92·0	26 36 51		10 49 30	29·0	6·550	92·0	G. S. J.	939·03	·36894	·36895	−·00001	·36894	
,, 24	12	27	2·7061	1·41	30·0	+0·6	6·787	91·3	26 35 32		10 49 1	30·1	6·843	91·3	G. S. J.	939·27	·36912	·36913	−·00001	·36912	
,, ,,	15	12	2·7072	1·40	30·7	,,	6·525	91·3	26 35 33		10 49 0	30·5	6·586	91·3	G. S. J.	939·14	·36899	·36900	−·00001	·36899	
July 1	12	23	2·7058	1·41	27·0	+0·5	5·936	90·7	26 39 2		10 50 36	26·6	5·957	90·7	G. S. J.	938·92	·36883	·36877	+·00006	·36880	
,, ,,	14	54	2·7058	1·40	27·0	,,	5·846	90·7	26 39 14		10 50 36	26·9	5·967	90·7	G. S. J.	939·03	·36879	·36875	+·00004	·36877	
,, 8	12	10	2·7049	1·40	28·0	+0·7	7·062	88·0	26 36 54		10 49 36	28·3	7·131	88·0	G. S. J.	939·23	·36913	·36912	+·00061	·36912	
,, ,,	15	14	2·7063	1·40	28·4	,,	6·211	88·0	26 37 25		10 49 46	28·4	6·615	88·0	G. S. J.	938·97	·36890	·36890	·00000	·36890	
,, 15	12	45	2·7050	1·38	28·0	+0·5	7·113	87·2	26 36 43		10 49 30	28·2	7·047	87·2	G. S. J.	939·12	·36914	·36914	·00000	·36914	
,, ,,	14	52	2·7053	1·38	27·9	,,	6·852	87·2	26 37 17		10 49 42	28·1	6·930	87·2	G. S. J.	939·10	·36903	·36904	−·00001	·36903	·368908
,, 22	12	19	2·7058	1·38	27·9	+0·8	6·397	87·0	26 38 25		10 50 6	28·0	6·390	87·0	G. S. J.	939·18	·36886	·36887	−·00001	·36886	
,, ,,	15	11	2·7066	1·40	28·1	,,	6·035	87·0	26 38 19		10 50 8	28·1	6·315	87·0	G. S. J.	939·01	·36877	·36876	+·00001	·36876	
,, 29	12	1	2·7044	1·39	27·0	+0·7	6·856	86·8	26 38 37		10 50 12	27·0	6·636	86·8	G. S. J.	939·31	·36905	·36905	·00000	·36905	
,, ,,	15	11	2·7061	1·39	26·9	,,	5·893	86·7	26 40 6		10 50 49	26·9	6·053	86·7	G. S. J.	939·12	·36865	·36865	·00000	·36865	

Aug.	5	12	19	2·7053	1·39	27·7	+0·9	6·651	86·0	26	38	5	10	49	55	27·8	6·656	86·0	G. S. J.	939·16	·36895	·36899	−·00004	·36897	
,,	,,	15	14	2·7066	1·39	28·0	,,	6·146	86·0	26	38	26	10	50	12	28·0	6·355	86·0	G. S. J.	938·99	·36877	·36875	+·00002	·36876	
,,	12	12	20	2·7063	1·39	28·0	+0·5	6·041	86·0	26	39	11	10	50	22	27·9	5·930	86·0	G. S. J.	939·23	·36872	·36875	−·00003	·36873	
,,	,,	15	12	2·7073	1·40	28·4	,,	5·285	86·0	26	40	24	10	50	47	28·2	5·233	86·0	G. S. J.	939·33	·36846	·36849	−·00003	·36847	·368554
,,	19	12	25	2·7084	1·41	28·0	+1·1	4·753	86·0	26	41	45	10	51	18	28·1	4·568	86·0	G. S. J.	939·27	·36816	·36819	−·00003	·36817	
,,	,,	15	12	2·7098	1·41	27·3	,,	3·480	86·0	26	43	48	10	52	7	27·8	3·777	86·0	G. S. J.	939·12	·36771	·36773	−·00002	·36772	
,,	26	12	25	2·7054	1·40	27·4	+0·8	6·287	85·6	26	39	0	10	50	16	27·2	6·263	85·6	G. S. J.	939·18	·36888	·36891	−·00003	·36889	
,,	,,	15	14	2·7059	1·39	27·1	,,	5·855	85·4	26	39	41	10	50	38	27·1	5·965	85·4	G. S. J.	939·14	·36872	·36872	·00000	·36872	
Sept.	2	12	6	2·7052	1·39	27·9	+1·8	6·395	86·0	26	37	44	10	49	55	28·2	6·322	86·0	G. S. J.	939·31	·36900	·36899	+·00001	·36899	
,,	,,	15	13	2·7062	1·40	28·5	,,	5·780	86·0	26	38	29	10	50	2	28·4	5·957	86·0	G. S. J.	939·29	·36882	·36886	−·00004	·36884	
,,	9	12	29	2·7062	1·41	28·2	+1·6	6·030	86·6	26	38	7	10	50	3	28·2	6·010	86·6	G. S. J.	939·14	·36885	·36884	+·00001	·36884	
,,	,,	15	14	2·7067	1·40	28·2	,,	5·450	86·6	26	38	35	10	50	13	28·6	5·673	86·6	G. S. J.	939·20	·36870	·36870	·00000	·36870	
,,	16	12	27	2·7086	1·42	28·7	+1·7	4·552	87·0	26	40	40	10	50	58	28·7	4·482	87·0	G. S. J.	939·23	·36826	·36826	·00000	·36826	·368374
,,	,,	14	59	2·7106	1·39	28·8	,,	3·297	87·0	26	41	51	10	51	26	28·7	3·970	87·0	G. S. J.	938·86	·36786	·36787	−·00001	·36786	
,,	23	12	21	2·7074	1·39	28·6	+1·6	5·174	87·5	26	39	2	10	50	14	28·7	5·230	87·5	G. S. J.	939·14	·36858	·36862	−·00004	·36860	
,,	,,	15	14	2·7075	1·38	29·0	,,	4·981	87·5	26	39	1	10	50	21	28·9	5·085	87·5	G. S. J.	939·25	·36859	·36859	·00000	·36859	
,,	30	12	29	2·7111	1·39	30·2	+1·6	3·010	88·0	26	42	15	10	51	30	30·1	2·845	88·0	G. S. J.	939·40	·36775	·36777	−·00002	·36776	
,,	,,	15	13	2·7136	1·41	30·4	,,	1·625	88·0	26	43	16	10	51	57	30·3	2·157	88·0	G. S. J.	938·90	·36729	·36731	−·00002	·36730	
Oct.	7	12	15	2·7071	1·40	29·2	+1·8	5·074	88·8	26	38	59	10	50	18	29·0	4·783	88·8	G. S. J.	939·46	·36865	·36867	−·00002	·36866	
,,	,,	15	10	2·7090	1·40	29·5	,,	4·130	88·8	26	39	15	10	50	28	29·6	4·415	88·8	G. S. J.	939·07	·36833	·36833	·00000	·36833	
,,	14	11	58	2·7081	1·41	29·6	+1·6	4·526	89·2	26	38	59	10	50	20	29·4	4·437	89·2	G. S. J.	939·31	·36851	·36852	−·00001	·36851	
,,	,,	14	51	2·7113	1·40	30·6	,,	2·961	89·2	26	40	4	10	50	47	30·2	3·478	89·2	G. S. J.	938·90	·36798	·36797	+·00001	·36797	·368561
,,	21	12	14	2·7070	1·40	30·1	+1·1	5·428	89·9	26	36	25	10	49	22	30·1	5·218	89·9	G. S. J.	939·23	·36892	·36892	·00000	·36892	
,,	,,	15	11	2·7087	1·39	30·9	,,	4·526	89·9	26	37	20	10	49	42	30·6	4·567	89·9	G. S. J.	939·20	·36861	·36862	−·00001	·36861	
,,	28	12	28	2·7076	1·40	31·0	+1·3	5·109	90·0	26	36	46	10	49	30	30·6	4·987	90·0	G. S. J.	939·46	·36883	·36884	−·00001	·36883	
,,	,,	15	10	2·7084	1·40	30·7	,,	4·517	90·0	26	36	51	10	49	31	30·9	4·681	90·0	G. S. J.	939·20	·36866	·36867	−·00001	·36866	
Nov.	4	12	31	2·7082	1·42	29·8	+1·4	4·505	90·1	26	38	17	10	50	8	29·6	4·397	90·1	G. S. J.	939·18	·36857	·36856	+·00001	·36856	
,,	,,	14	56	2·7086	1·40	29·8	,,	4·267	90·1	26	38	17	10	50	6	29·8	4·307	90·1	G. S. J.	939·10	·36850	·36850	·00000	·36850	
,,	12	12	18	2·7076	1·40	28·3	+1·2	†8·302	89·9	26	39	54	10	50	37	28·7	†8·222	89·9	G. S. J.	939·25	·36843	·36846	−·00003	·36844	
,,	,,	15	13	2·7077	1·40	27·8	,,	7·898	89·9	26	40	32	10	50	55	28·5	8·012	89·9	G. S. J.	939·25	·36832	·36834	−·00002	·36833	·368434
,,	18	12	19	2·7077	1·37	27·5	+1·1	7·769	89·0	26	41	6	10	51	11	27·9	7·887	89·0	G. S. J.	939·20	·36830	·36829	+·00001	·36829	
,,	,,	15	14	2·7087	1·40	28·0	,,	7·383	89·0	26	42	1	10	51	25	28·2	7·418	89·0	G. S. J.	939·25	·36808	·36811	−·00003	·36809	
,,	25	12	30	2·7052	1·38	26·2	+0·9	8·775	88·0	26	40	35	10	50	58	26·6	8·682	88·0	G. S. J.	939·31	·36869	·36869	·00000	·36869	
,,	,,	15	11	2·7063	1·39	27·0	,,	8·500	88·0	26	40	40	10	51	0	26·9	8·571	88·0	G. S. J.	939·20	·36857	·36857	·00000	·36857	
Dec.	2	12	32	2·7049	1·30	27·0	+1·4	8·942	87·3	26	39	29	10	50	32	27·2	8·897	87·3	G. S. J.	939·46	·36888	·36888	·00000	·36888	
,,	,,	15	11	2·7062	1·37	27·7	,,	8·633	87·3	26	39	30	10	50	32	27·5	8·800	87·3	G. S. J.	939·23	·36872	·36873	−·00001	·36872	
,,	9	12	17	2·7047	1·29	25·4	+1·3	9·096	86·7	26	40	39	10	51	2	25·7	8·938	86·7	G. S. J.	939·18	·36877	·36876	+·00001	·36876	
,,	,,	14	37	2·7058	1·26	26·4	,,	8·473	86·7	26	40	57	10	51	5	26·0	8·653	86·7	G. S. J.	939·14	·36865	·36865	·00000	·36865	
,,	17	12	27	2·7051	1·26	26·3	+1·1	9·056	86·0	26	40	12	10	50	50	26·7	8·932	86·0	G. S. J.	939·33	·36876	·36876	·00000	·36876	·368748
,,	,,	15	11	2·7060	1·26	26·7	,,	8·477	86·0	26	40	46	10	51	0	26·7	8·637	86·0	G. S. J.	939·25	·36861	·36862	−·00001	·36861	
,,	23	12	25	2·7036	1·26	24·5	+1·4	9·092	85·4	26	41	40	10	51	20	24·4	9·010	85·4	G. S. J.	939·31	·36886	·36888	−·00002	·36887	
,,	,,	15	14	2·7047	1·27	25·2	,,	8·591	85·4	26	41	56	10	51	26	25·0	8·722	85·4	G. S. J.	939·29	·36869	·36871	−·00002	·36870	
,,	30	12	31	2·7049	1·27	25·7	+1·4	8·873	85·0	26	40	10	10	50	51	26·0	8·860	85·0	G. S. J.	939·12	·36880	·36879	+·00001	·36879	
,,	,,	15	11	2·7056	1·27	26·6	,,	8·623	85·0	26	40	9	10	50	52	26·4	8·757	85·0	G. S. J.	939·18	·36875	·36873	+·00002	·36874	

The mean* observed value of the Horizontal Force for the year 1908 = 0·368705

† H. F. Magnetograph was re-adjusted on 11th.

* The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table Ib.

Observations of Vibration and Deflection, taken with Magnetometer No. 3 (Cambridge Scientific Instrument Co.) for the determination of Absolute Horizontal Force.

1908.

1908. Date.	Vibration Magnet. Civil Time, Mean.	Time of one Vibration.	Effect at 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Angle of Deflection. Distance. 23 cms.	30 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Observer.	Calculated Results in C. G. S. Unit. Values of m.	Values of H. From Deflection at distance. 23 cms (H_{23}).	30 cms (H_{30}).	Difference. $H_{23} - H_{30}$.	Mean. $\frac{H_{23}+H_{30}}{2}$	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	mm.	°	′ ″	° ′ ″	°	mm.	°							
JAN. 6	12 28	2·8661	1·92	27·0	+1·3	87·4	84·2	23 51 15	10 30 36	26·8	86·9	84·2	G. S. J.	918·16	0·36886	0·36889	−·00003	0·36887	
,, ,,	15 14	2·8672	2·01	26·9	,,	82·4	84·2	23 51 32	10 30 52	26·8	83·3	84·2	G. S. J.	917·91	·36866	·36866	·00000	·36866	
,, 13	12 46	2·8652	2·21	24·6	+1·1	83·7	83·8	23 53 54	10 31 50	24·0	82·8	83·8	G. S. J.	918·16	·36868	·36869	−·00001	·36868	
,, ,,	14 59	2·8658	2·34	24·5	,,	81·7	83·8	23 53 38	10 31 52	24·3	82·2	83·8	G. S. J.	917·91	·36859	·36854	+·00005	·36856	
,, 20	12 19	2·8650	1·75	26·2	+1·1	92·5	83·4	23 50 37	10 30 30	26·3	91·5	83·4	G. S. J.	918·16	·36906	·36905	+·00001	·36905	·368744
,, ,,	14 55	2·8668	1·77	26·6	,,	85·6	83·4	23 50 51	10 30 44	26·5	87·8	83·4	G. S. J.	917·80	·36882	·36877	+·00005	·36879	
,, 27	12 22	2·8656	1·98	25·7	+1·2	83·7	83·3	23 52 38	10 31 27	25·4	82·7	83·3	G. S. J.	918·25	·36876	·36872	+·00004	·36874	
,, ,,	15 11	2·8668	1·98	25·9	,,	81·4	83·3	23 52 22	10 31 23	25·7	82·0	83·3	G. S. J.	917·91	·36863	·36858	+·00005	·36860	
FEB. 3	12 36	2·8631	2·08	23·6	+1·0	91·7	82·9	23 53 12	10 31 38	22·7	90·3	82·9	G. S. J.	918·16	·36907	·36905	+·00002	·36906	
,, ,,	15 12	2·8635	1·96	23·5	,,	84·9	82·9	23 53 6	10 31 37	23·1	87·8	82·9	G. S. J.	918·08	·36899	·36897	+·00002	·36898	
,, 10	12 24	2·8668	2·00	27·0	+0·7	81·6	82·8	23 51 31	10 30 55	27·0	80·7	82·8	G. S. J.	918·10	·36870	·36868	+·00002	·36869	
,, ,,	15 11	2·8671	1·93	27·0	,,	82·7	82·8	23 51 31	10 30 53	27·0	82·3	82·8	G. S. J.	918·02	·36867	·36866	+·00001	·36866	
,, 17	12 30	2·8666	2·05	27·2	+0·6	83·2	83·0	23 50 50	10 30 37	27·1	83·2	83·0	G. S. J.	918·02	·36882	·36880	+·00002	·36881	·368847
,, ,,	15 13	2·8672	1·98	26·9	,,	78·7	83·0	23 51 33	10 30 54	27·0	80·4	83·0	G. S. J.	917·97	·36864	·36863	+·00001	·36863	
,, 24	12 26	2·8656	2·10	26·8	+0·7	88·5	83·1	23 50 4	10 30 11	26·7	90·3	83·0	G. S. J.	917·89	·36904	·36905	−·00001	·36904	
,, ,,	15 15	2·8668	2·13	27·1	,,	81·9	83·0	23 49 30	10 30 12	27·1	86·9	83·0	G. S. J.	917·57	·36894	·36888	+·00006	·36891	
MAR. 3	12 32	2·8664	2·20	25·2	+0·6	78·1	83·0	23 53 44	10 31 46	25·1	75·6	83·0	G. S. J.	918·04	·36849	·36849	·00000	·36849	
,, ,,	15 15	2·8660	2·26	25·5	,,	75·4	83·0	23 53 10	10 31 45	25·3	75·2	83·0	G. S. J.	918·18	·36860	·36854	+·00006	·36857	
,, 9	12 46	2·8664	2·00	26·5	+0·7	80·7	83·4	23 51 40	10 30 54	26·2	81·2	83·4	G. S. J.	917·97	·36876	·36876	·00000	·36876	
,, ,,	15 1	2·8684	1·95	26·2	,,	68·4	83·4	23 52 20	10 31 20	26·2	75·7	83·4	G. S. J.	917·55	·36840	·36836	+·00004	·36838	
,, 16	12 25	2·8644	0·50	26·3	+0·6	94·3	84·0	23 50 20	10 30 6	26·3	90·3	84·0	N.	918·35	·36926	·36933	−·00007	·36929	
,, ,,	15 24	2·8682	0·56	26·2	,,	70·6	84·0	23 53 18	10 31 37	26·1	72·9	84·0	N.	918·06	·36841	·36841	·00000	·36841	·368676
,, 23	12 13	2·8670	0·41	28·0	+0·4	83·7	84·5	23 50 3	10 30 17	27·7	81·6	84·5	N.	918·23	·36898	·36896	+·00002	·36897	
,, ,,	14 53	2·8684	0·41	28·2	,,	77·2	84·5	23 50 23	10 30 18	27·8	79·0	84·5	N.	917·91	·36877	·36879	−·00002	·36878	
,, 30	12 24	2·8695	0·39	29·4	+0·3	72·3	85·2	23 49 21	10 30 15	29·7	71·1	85·2	N.	918·06	·36868	·36860	+·00008	·36864	
,, ,,	15 12	2·8707	0·39	29·6	,,	67·2	85·2	23 50 8	10 30 24	29·3	69·1	85·2	N.	917·80	·36849	·36845	+·00004	·36847	

April	6	11	55	2·8668	1·66	29·4	+0·5	85·0	86·2	23 47 55	10 29 28	28·9	83·6	86·2	N.	918·04	·36919	·36916	+·00003	·36917	
,,	,,	15	14	2·8679	1·71	29·3	,,	72·2	86·2	23 48 55	10 29 52	28·9	77·5	86·2	N.	917·95	·36892	·36888	+·00004	·36890	
,,	13	12	23	2·8675	1·78	29·5	+0·6	80·3	87·1	23 48 23	10 29 33	29·3	77·7	87·1	G. S. J.	918·02	·36902	·36901	+·00001	·36901	
,,	,,	15	18	2·8689	1·93	29·2	,,	71·1	87·1	23 49 33	10 30 12	29·2	72·2	87·1	G. S. J.	917·85	·36866	·36861	+·00005	·36863	
,,	20	12	22	2·8674	1·86	29·3	+0·5	77·5	88·1	23 48 47	10 29 57	28·7	75·7	88·1	G. S. J.	918·06	·36900	·36894	+·00006	·36897	·368829
,,	,,	15	11	2·8690	1·84	29·5	,,	70·9	88·1	23 49 1	10 29 52	29·2	72·5	88·1	G. S. J.	917·70	·36875	·36873	+·00002	·36874	
,,	27	12	3	2·8686	1·81	30·7	+0·4	73·3	89·0	23 48 22	10 29 40	30·3	70·9	89·0	G. S. J.	918·18	·36888	·36884	+·00004	·36886	
,,	,,	15	12	2·8711	1·88	30·6	,,	61·1	89·0	23 49 44	10 30 16	30·4	62·5	89·0	G. S. J.	917·78	·36837	·36833	+·00004	·36835	
May	4	12	56	2·8685	1·90	29·7	+0·2	72·7	89·8	23 49 2	10 30 0	29·0	70·8	89·8	G. S. J.	917·93	·36885	·36880	+·00005	·36882	
,,	,,	14	43	2·8691	1·87	29·5	,,	66·1	89·9	23 49 10	10 30 1	29·0	69·7	89·8	G. S. J.	917·68	·36872	·36869	+·00003	·36870	
,,	11	12	2	2·8695	1·87	30·9	+0·4	68·6	90·5	23 47 55	10 29 28	30·8	68·2	90·5	G. S. J.	917·89	·36878	·36875	+·00003	·36876	
,,	,,	14	52	2·8703	1·89	30·7	,,	63·5	90·5	23 48 36	10 29 50	30·6	65·1	90·5	G. S. J.	917·78	·36860	·36854	+·00006	·36857	
,,	18	13	41	2·8696	1·42	30·7	+0·5	66·5	91·1	23 48 26	10 29 40	30·5	64·7	91·1	G. S. J.	917·97	·36876	·36872	+·00004	·36874	·368022
,,	,,	15	16	2·8701	1·50	30·7	,,	62·2	91·1	23 48 33	10 29 55	30·5	63·4	91·1	G. S. J.	917·91	·36867	·36858	+·00009	·36862	
,,	25	12	7	2·8696	1·53	30·1	+0·4	63·3	91·7	23 49 37	10 30 11	29·6	60·4	91·7	G. S. J.	917·99	·36864	·36860	+·00004	·36862	
,,	,,	15	2	2·8718	1·52	29·7	,,	49·2	91·7	23 50 55	10 30 40	29·6	52·9	91·7	G. S. J.	917·57	·36816	·36815	+·00001	·36815	
June	1	12	33	2·8706	1·52	31·0	+0·3	62·0	92·0	23 48 23	10 29 41	30·5	60·8	92·0	G. S. J.	917·72	·36865	·36861	+·00004	·36863	
,,	,,	15	12	2·8717	1·53	31·1	,,	53·7	92·0	23 49 0	10 29 50	31·0	56·4	92·0	G. S. J.	917·64	·36840	·36839	+·00001	·36839	
,,	8	12	23	2·8701	1·60	31·7	+0·4	63·9	92·6	23 47 17	10 29 11	31·0	63·7	92·6	G. S. J.	917·76	·36886	·36882	+·00004	·36884	
,,	,,	15	13	2·8710	1·56	31·0	,,	59·9	92·6	23 47 37	10 29 26	30·9	61·1	92·6	G. S. J.	917·44	·36866	·36860	+·00006	·36863	
,,	15	12	7	2·8682	1·60	28·8	+0·5	64·3	92·2	23 49 7	10 30 11	28·7	63·0	92·2	G. S. J.	917·87	·36884	·36874	+·00010	·36879	
,,	,,	15	14	2·8690	1·57	28·1	,,	54·5	92·0	23 49 25	10 30 26	28·8	57·8	92·1	G. S. J.	917·61	·36863	·36849	+·00014	·36856	·368755
,,	22	12	15	2·8675	1·62	29·4	+0·6	68·6	91·3	23 48 14	10 29 31	28·4	68·4	91·3	G. S. J.	917·78	·36911	·36911	·00000	·36911	
,,	,,	15	14	2·8683	1·60	28·4	,,	60·2	91·3	23 49 2	10 30 2	28·4	63·2	91·3	G. S. J.	917·61	·36883	·36877	+·00006	·36880	
,,	29	12	14	2·8676	1·57	29·9	+0·5	69·0	91·1	23 47 35	10 29 17	29·8	66·2	91·1	G. S. J.	917·97	·36910	·36908	+·00002	·36909	
,,	,,	14	56	2·8695	1·58	29·1	,,	55·9	91·1	23 47 51	10 29 36	29·8	61·3	91·1	G. S. J.	917·36	·36875	·36867	+·00008	·36871	
July	6	12	20	2·8671	1·61	26·9	+1·0	65·6	88·8	23 49 44	10 30 15	27·4	65·8	88·8	G. S. J.	917·66	·36887	·36883	+·00004	·36885	
,,	,,	15	13	2·8676	1·60	27·6	,,	61·8	88·7	23 49 24	10 30 6	27·6	64·7	88·8	G. S. J.	917·59	·36888	·36884	+·00004	·36886	
,,	13	13	15	2·8674	0·96	27·9	+0·2	64·4	87·8	23 49 39	10 30 5	27·8	63·3	87·8	G. S. J.	917·89	·36893	·36892	+·00001	·36892	
,,	,,	14	54	2·8688	0·96	28·2	,,	60·7	87·8	23 49 22	10 30 10	27·9	62·3	87·8	G. S. J.	917·51	·36879	·36873	+·00006	·36876	
,,	20	12	47	2·8672	0·96	27·8	+0·4	67·0	87·2	23 49 25	10 30 3	27·2	66·1	87·2	G. S. J.	917·74	·36902	·36899	+·00003	·36900	
,,	,,	15	11	2·8681	0·95	27·9	,,	63·0	87·2	23 49 22	10 29 55	27·8	64·5	87·2	G. S. J.	917·57	·36888	·36888	·00000	·36888	·368844
,,	27	12	14	2·8683	0·91	28·2	+0·9	63·9	87·0	23 49 11	10 30 1	28·2	62·4	87·0	G. S. J.	917·66	·36886	·36882	+·00004	·36884	
,,	,,	15	12	2·8695	0·91	28·3	,,	56·7	87·0	23 49 46	10 30 11	28·0	59·5	87·0	G. S. J.	917·38	·36865	·36864	+·00001	·36864	
Aug.	3	12	33	2·8673	0·90	26·7	+1·1	64·0	86·0	23 50 16	10 30 29	26·5	63·6	86·0	G. S. J.	917·64	·36889	·36885	+·00004	·36887	
,,	,,	15	10	2·8679	0·90	26·6	,,	58·7	86·0	23 50 33	10 30 31	26·6	61·2	86·0	G. S. J.	917·53	·36877	·36874	+·00003	·36875	
,,	10	12	13	2·8680	0·89	27·5	+0·3	61·8	86·0	23 50 39	10 30 30	27·4	59·1	86·0	G. S. J.	917·83	·36873	·36873	·00000	·36873	
,,	,,	15	14	2·8687	0·87	27·1	,,	53·2	86·0	23 51 39	10 31 0	26·8	55·2	86·0	G. S. J.	917·70	·36854	·36851	+·00003	·36852	
,,	17	12	13	2·8673	0·87	27·7	+0·8	66·8	85·8	23 48 59	10 29 53	27·4	65·8	85·8	G. S. J.	917·64	·36905	·36902	+·00003	·36903	
,,	,,	15	14	2·8677	0·87	27·3	,,	59·5	85·8	23 49 41	10 30 9	27·5	61·1	85·8	G. S. J.	917·64	·36887	·36884	+·00003	·36885	·368739
,,	24	12	45	2·8687	0·85	27·8	+1·1	58·0	85·9	23 50 19	10 30 30	27·7	56·1	85·9	G. S. J.	917·70	·36869	·36865	+·00004	·36867	
,,	,,	15	12	2·8694	0·86	27·8	,,	53·9	85·9	23 50 47	10 30 40	27·7	54·1	85·9	G. S. J.	917·61	·36854	·36851	+·00003	·36852	
,,	31	12	13	2·8682	0·83	27·9	+1·5	60·7	85·9	23 49 59	10 30 12	27·6	59·2	85·9	G. S. J.	917·72	·36882	·36882	·00000	·36882	
,,	,,	15	16	2·8690	0·86	27·8	,,	54·6	86·0	23 50 22	10 30 29	27·7	55·2	86·0	G. S. J.	917·61	·36865	·36861	+·00004	·36863	
Sept.	7	12	17	2·8687	0·85	27·7	+1·7	54·5	86·3	23 50 54	10 30 44	26·9	55·8	86·3	G. S. J.	917·68	·36868	·36864	+·00004	·36866	
,,	,,	15	13	2·8688	0·88	26·9	,,	50·1	86·3	23 51 38	10 31 9	26·5	52·0	86·3	G. S. J.	917·66	·36855	·36848	+·00007	·36851	
,,	14	12	10	2·8706	0·82	28·4	+1·4	45·7	86·9	23 52 4	10 31 5	27·7	45·1	86·9	G. S. J.	917·72	·36829	·36829	·00000	·36829	
,,	,,	14	57	2·8712	0·98	28·1	,,	40·8	86·9	23 52 17	10 31 20	27·9	42·4	86·9	G. S. J.	917·61	·36813	·36809	+·00004	·36811	
,,	21	12	12	2·8675	1·39	27·8	+1·8	57·0	87·2	23 49 21	10 29 53	27·9	56·8	87·2	G. S. J.	917·70	·36891	·36894	−·00003	·36892	
,,	,,	15	15	2·8698	1·45	28·2	,,	48·7	87·2	23 50 7	10 30 30	28·0	50·8	87·2	G. S. J.	917·38	·36854	·36848	+·00006	·36851	·368495
,,	28	12	26	2·8693	1·58	29·5	+1·7	53·4	88·0	23 49 3	10 29 57	29·2	52·9	88·0	G. S. J.	917·70	·36873	·36869	+·00004	·36871	
	,,	15	12	2·8712	1·55	29·6	,,	41·2	88·0	23 50 46	10 30 46	29·3	41·2	88·0	G. S. J.	917·72	·36829	·36822	+·00007	·36825	

1908. Date.	Civil Time, Mean.	Vibration Magnet. Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Angle of Deflection. Distance. 23 cms.	30 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Observer.	Calculated Results in C. G. S. Unit. Values of H. Values of m.	From Deflection at distance. 23 cms. (H_{23}).	30 cms. (H_{30}).	Difference. $H_{23} - H_{30}$.	Mean. $\frac{H_{23}+H_{30}}{2}$	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	mm.	°	° ′ ″	° ′ ″	°	mm.	°							
Oct. 5	12 36	2·8685	1·55	29·2	+1·6	57·8	88·6	23 48 59	10 29 36	28·8	56·1	88·6	G. S. J.	917·66	0·36888	0·36891	−·00003	0·36889	
,, ,,	15 12	2·8711	1·58	29·6	,,	42·5	88·6	23 49 4	10 30 7	29·3	48·1	88·6	G. S. J.	917·23	·36849	·36842	+·00007	·36845	
,, 12	12 23	2·8691	1·54	29·0	+1·9	50·3	89·1	23 49 37	10 30 7	28·7	49·4	89·0	G. S. J.	917·70	·36869	·36867	+·00002	·36868	
,, ,,	14 53	2·8701	1·59	28·8	,,	42·9	89·0	23 50 21	10 30 33	28·6	44·4	89·0	G. S. J.	917·57	·36846	·36841	+·00005	·36843	
,, 19	12 35	2·8697	1·64	30·1	+1·2	50·9	89·8	23 48 11	10 29 27	30·0	48·0	89·8	G. S. J.	917·55	·36876	·36876	·00000	·36876	·368660
,, ,,	15 13	2·8700	1·57	29·6	,,	45·0	89·8	23 48 41	10 29 52	29·6	45·8	89·8	G. S. J.	917·51	·36866	·36860	+·00006	·36863	
,, 26	12 22	2·8693	1·69	30·9	+0·9	53·9	89·9	23 46 48	10 23 0	31·6	49·4	89·9	G. S. J.	917·83	·36888	·36885	+·00003	·36886	
,, ,,	15 10	2·8709	1·57	30·9	,,	44·6	90·0	23 47 52	10 29 20	31·4	45·2	90·0	G. S. J.	917·57	·36859	·36858	+·00001	·36858	
Nov. 2	12 33	2·8695	1·45	29·7	+1·5	43·9	90·2	23 49 45	10 30 4	29·5	42·9	90·2	G. S. J.	917·93	·36862	·36863	−·00001	·36862	
,, ,,	14 57	2·8706	1·53	29·6	,,	40·1	90·2	23 50 7	10 30 17	29·4	41·1	90·2	G. S. J.	917·66	·36843	·36843	·00000	·36843	
,, 9	12 27	2·8708	1·59	29·4	+1·3	36·5	90·0	23 51 54	10 31 4	28·2	35·4	90·0	G. S. J.	917·83	·36827	·36826	+·00001	·36826	
,, ,,	15 15	2·8711	1·55	28·8	,,	32·7	90·0	23 51 45	10 31 19	28·7	33·4	90·0	G. S. J.	917·72	·36816	·36810	+·00006	·36813	
,, 16	12 21	2·8688	1·73	28·5	+1·2	*86·9	89·4	23 50 12	10 30 13	28·3	*86·0	89·4	G. S. J.	917·70	·36864	·36866	−·00002	·36865	
,, ,,	15 11	2·8693	1·68	27·6	,,	82·4	89·3	23 50 32	10 30 40	27·8	83·2	89·3	G. S. J.	917·47	·36850	·36844	+·00006	·36847	·368534
,, 23	12 27	2·8666	1·64	26·9	+1·1	91·2	88·3	23 50 31	10 30 30	26·9	89·3	88·3	G. S. J.	917·91	·36888	·36886	+·00002	·36887	
,, ,,	15 21	2·8681	1·55	26·7	,,	84·9	88·4	23 51 27	10 30 52	26·8	85·8	88·3	G. S. J.	917·66	·36858	·36856	+·00002	·36857	
,, 30	12 41	2·8681	1·59	27·6	+1·2	88·5	87·7	23 50 31	10 30 28	27·2	87·8	87·7	G. S. J.	917·66	·36873	·36872	+·00001	·36872	
,, ,,	15 13	2·8687	1·67	27·7	,,	85·2	87·7	23 50 15	10 30 27	27·6	86·4	87·7	G. S. J.	917·51	·36865	·36860	+·00005	·36862	
Dec. 7	12 30	2·8675	1·68	26·0	+1·2	85·4	87·0	23 52 52	10 31 25	25·4	84·0	87·0	G. S. J.	917·80	·36854	·36854	·00000	·36854	
,, 15	14	2·8687	1·73	26·0	,,	80·5	87·0	23 52 48	10 31 27	25·9	81·2	87·0	G. S. J.	917·47	·36826	·36832	+·00004	·36834	
,, 14	12 25	2·8675	1·76	26·0	+1·2	86·7	86·0	23 52 5	10 31 2	25·9	85·6	86·0	G. S. J.	917·64	·36859	·36860	−·00001	·36859	
,, ,,	15 10	2·8676	1·67	26·3	,,	84·2	86·0	23 52 6	10 31 7	26·0	84·6	86·0	G. S. J.	917·72	·36859	·36858	+·00001	·36858	
,, 21	12 30	2·8666	1·67	25·1	+1·3	89·4	85·5	23 52 15	10 31 1	24·9	88·8	85·5	G. S. J.	917·53	·36869	·36872	−·00003	·36870	·368600
,, ,,	15 14	2·8670	1·52	25·5	,,	86·2	85·5	23 52 5	10 31 6	25·3	86·8	85·5	G. S. J.	917·59	·36866	·36866	·00000	·36866	
,, 28	12 33	2·8665	1·72	26·0	+1·4	91·3	85·0	23 51 16	10 30 42	25·8	88·8	85·0	G. S. J.	917·68	·36882	·36883	−·00001	·36882	
,, ,,	15 13	2·8678	1·67	26·3	,,	83·6	85·0	23 51 52	10 31 5	26·0	84·8	85·0	G. S. J.	917·61	·36859	·36856	+·00003	·36857	

The mean observed value of the Horizontal Force for the year 1908 = 0·368695

* H. F. Magnetograph was re-adjusted on 11th November.

Absolute Magnetical Observations, Alibag—Table IIa.

OBSERVATIONS OF ABSOLUTE DECLINATION, 1908.

Taken with Magnetometer No. 7 (T. Cooke and Sons).

1908. Date		Alibag Civil Time.	Mean Readings. Collimator Magnet. Scale apparently Erect.	Inverted.	Horizontal Circle with Telescope pointed to. Scale of Collimator Magnet.	Kennery Light-house.	Torsion. Mean.	Effect of 90°.	Observer.	Corresponding Ordinate of Declination Magnetograms.	Absolute Easterly Declination corrected for Torsion.	Monthly Mean. Corresponding Ordinate of Declination Magnetograms.	Observed absolute Easterly Declination.
1		2	3	4	5	6	7	8	9	10	11	12	13
		H. m.	Sc. div.	Sc. div.	° ′ ″	° ′ ″	″	Sc. div.		cms.	° ′ ″	cms.	° ′ ″
JAN.	2	11 50	55·6	...	85 34 40	222 24 20	0	...	G. S. J.	6·497	1 3 45		
,,	9	11 46	55·6	...	85 33 5	222 24 10	0	...	G. S. J.	6·360	1 2 20		
,,	16	11 43	55·6	...	85 33 30	222 24 0	0	...	G. S. J.	6·415	1 2 55	6·400	1 2 47
,,	23	11 53	55·6	...	85 32 20	222 24 5	0	...	G. S. J.	6·287	1 1 40		
,,	30	11 55	55·6	...	85 34 0	222 24 10	0	...	G. S. J.	6·440	1 3 15		
FEB.	6	11 44	55·6	...	85 33 15	222 24 10	0	...	G. S. J.	6·400	1 2 30		
,,	13	11 39	55·6	...	85 36 20	222 24 15	0	...	G. S. J.	6·660	1 5 30	6·497	1 3 35
,,	20	11 47	55·6	...	85 34 40	222 24 35	0	...	G. S. J.	6·500	1 3 30		
,,	27	11 50	55·6	...	85 33 45	222 24 20	0	...	G. S. J.	6·430	1 2 50		
MAR.	6	11 23	55·6	...	85 33 50	222 24 15	0	...	G. S. J.	6·452	1 3 0		
,,	12	12 22	55·6	...	85 32 40	222 24 20	0	...	N.	6·322	1 1 45		
,,	19	11 7	55·6	...	85 32 50	222 24 10	0	...	N.	6·355	1 2 5	6·350	1 2 7
,,	26	11 8	55·6	...	85 32 20	222 24 5	0	...	N.	6·270	1 1 40		
APRIL	2	12 57	55·6	...	85 31 35	222 23 50	0	...	N.	6 205	1 1 10		
,,	9	11 49	55·6	...	85 32 45	222 24 30	0	...	N.	6·290	1 1 40		
,,	16	12 8	55·6	...	85 31 45	222 24 10	0	...	G. S. J.	6·252	1 1 0	6·217	1 0 49
,,	23	11 42	55·6	...	85 30 50	222 24 0	0	...	G. S. J.	6·180	1 0 15		
,,	30	11 52	55·6	...	85 30 55	222 24 20	0	...	G. S. J.	6·160	1 0 0		
MAY	7	12 38	55·6	...	85 32 10	222 24 15	0	...	G. S. J.	6·270	1 1 20		
,,	14	11 46	55·6	...	85 31 30	222 24 15	0	...	G. S. J.	6·200	1 0 40	6·215	1 0 32
,,	21	11 42	55·6	...	85 31 15	222 24 15	0	...	G. S. J.	6·225	1 0 25		
,,	29	11 50	55·6	...	85 30 30	222 24 10	0	...	G. S. J.	6·165	0 59 45		
JUNE	4	11 41	55·6	...	85 31 0	222 24 10	0	...	G. S. J.	6·225	1 0 15		
,,	11	11 30	55·6	...	85 30 10	222 24 10	0	...	G. S. J.	6·152	0 59 25	6·163	0 59 29
,,	18	11 31	55·6	...	85 30 30	222 24 10	0	...	G. S. J.	6·210	0 59 45		
,,	25	11 43	55·6	...	85 29 10	222 24 5	0	...	G. S. J.	6·065	0 58 30		
JULY	2	11 26	55·6	...	85 31 50	222 24 0	0	...	G. S. J.	6·335	1 1 15		
,,	9	11 45	55·6	...	85 31 20	222 23 50	0	...	G. S. J.	6·305	1 0 55		
,,	16	11 42	55·6	...	85 29 30	222 24 20	0	...	G. S. J.	6·075	0 58 35	6·197	0 59 49
,,	23	11 35	55·6	...	85 31 0	222 24 20	0	...	G. S. J.	6·235	1 0 5		
,,	30	11 45	55·6	...	85 29 20	222 24 30	0	...	G. S. J.	6·037	0 58 15		
AUG.	6	12 12	55·6	...	85 28 35	222 24 5	0	...	G. S. J.	5·995	0 57 55		
,,	13	11 37	55·6	...	85 30 10	222 24 5	0	...	G. S. J.	6·155	0 59 30	6·059	0 58 35
,,	20	11 40	55·6	...	85 30 25	222 24 5	0	...	G. S. J.	6·170	0 59 45		
,,	27	11 50	55·6	...	85 27 40	222 23 55	0	...	G. S. J.	5·915	0 57 10		
SEPT.	3	11 49	55·6	...	85 29 35	222 24 5	0	...	G. S. J.	6·090	0 58 55		
,,	10	11 48	55·6	...	85 30 45	222 24 0	0	...	G. S. J.	6·192	1 0 10	6·161	0 59 42
,,	17	11 33	55·6	...	85 31 20	222 24 25	0	...	G. S. J.	6·232	1 0 20		
,,	24	11 39	55·6	...	85 30 20	222 24 20	0	...	G. S. J.	6·130	0 59 25		
OCT.	1	10 7	55·6	...	85 32 15	222 24 25	0	...	G. S. J.	6·290	1 1 15		
,,	8	12 1	55·6	...	85 29 45	222 24 10	0	...	G. S. J.	6·085	0 59 0		
,,	15	11 25	55·6	...	85 31 50	222 24 5	0	...	G. S. J.	6·280	1 1 10	6·206	1 0 25
,,	22	11 52	55·6	...	85 30 45	222 24 15	0	...	G. S. J.	6·145	0 59 55		
,,	29	11 43	55·6	...	85 31 20	222 24 0	0	...	G. S. J.	6·232	1 0 45		
NOV.	5	11 44	55·6	...	85 30 50	222 24 15	0	...	G. S. J.	6·132	1 0 0		
,,	13	11 40	55·6	...	85 30 25	222 24 0	0	...	G. S. J.	6·135	0 59 50	6·210	1 0 47
,,	19	11 52	55·6	...	85 32 5	222 23 55	0	...	G. S. J.	6·272	1 1 35		
,,	27	10 51	55·6	...	85 31 50	222 23 30	0	...	G. S. J.	6·300	1 1 45		
DEC.	3	12 19	55·6	...	85 32 55	222 23 20	0	...	G. S. J.	6·412	1 3 0		
,,	10	12 1	55·6	...	85 30 0	222 23 25	0	...	G. S. J.	6·140	1 0 0		
,,	18	11 53	55·6	...	85 30 40	222 23 15	0	...	G. S. J.	6·225	1 0 50	6·197	1 0 38
,,	24	12 2	55·6	...	85 30 10	222 23 0	0	...	G. S. J.	6·195	1 0 35		
,,	31	11 49	55·6	...	85 28 20	222 23 0	0	...	G. S. J.	6·012	0 58 45		

The mean * observed Declination for the year 1908 = 1 ° 0 ′ 46 ″

* The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table IIb.

OBSERVATIONS OF ABSOLUTE DECLINATION, 1908.

Taken with Magnetometer No. 3 (Cambridge Scientific Instrument Co.).

1908. Date.	Alibag Civil Time.	Mean Readings. Collimator Magnet. Scale apparently Erect.	Inverted.	Horizontal Circle with Telescope pointed to. Scale of Collimator Magnet.	Kennery Light-house.	Torsion. Mean.	Effect of 90°.	Observer.	Corresponding Reading of Declination Magnetograph.	Monthly Mean. Absolute Easterly Declination corrected for Torsion.	Corresponding Reading of Declination Magnetograph.	Observed absolute Easterly Declination.
1	2	3	4	5	6	7	8	9	10	11	12	13
	H. m.	Sc. div.	Sc. div.	° ′ ″	° ′ ″	°	Sc. div.		mm.	° ′ ″	mm.	° ′ ″
JAN. 2	12 31	33·97	33·95	276 30 25	53 21 10	0	...	G. S. J.	64·60	1 2 41		
,, 9	12 27	34·00	33·97	276 31 15	53 22 30	0	...	G. S. J.	64·40	1 2 11		
,, 16	12 36	34·00	34·00	276 31 0	53 21 5	0	...	G. S. J.	65·15	1 3 20	64·11	1 2 10
,, 23	12 33	34·05	33·95	276 28 15	53 20 55	0	...	G. S. J.	63·00	1 0 51		
,, 30	12 34	33·95	33·92	276 29 50	53 21 30	0	...	G. S. J.	63·40	1 1 46		
FEB. 6	12 27	34·05	33·90	276 29 55	53 21 50	0	...	G. S. J.	63·80	1 1 38		
,, 13	12 23	33·92	34·10	276 32 20	53 20 50	0	...	G. S. J.	66·55	1 4 45		
,, 20	12 26	33·92	34·05	276 31 10	53 21 30	7W	0·57	G. S. J.	65·10	1 3 3	64·94	1 2 55
,, 27	12 31	34·10	33·82	276 30 0	53 21 25	0	...	G. S. J.	64·30	1 2 16		
MARCH 6	11 58	33·95	34·05	276 30 45	53 22 5	0	...	G. S. J.	63·70	1 1 59		
,, 12	13 7	34·00	33·97	276 28 40	53 21 5	0	...	N.	63·30	1 1 1	62·94	1 0 58
,, 19	11 46	33·95	34·05	276 30 20	53 23 30	0	...	N.	62·45	1 0 9		
,, 26	11 43	33·90	34·12	276 28 30	53 21 0	0	...	N.	62·30	1 0 42		
APRIL 2	13 32	34·00	34·02	276 28 15	53 20 50	0	...	N.	62·50	1 0 49		
,, 9	12 25	34·00	34·00	276 30 50	53 23 27	0	...	N.	62·55	1 0 48		
,, 16	12 46	34·00	34·00	276 30 0	53 22 45	0	...	G. S. J.	62·59	1 0 40	62·07	1 0 8
,, 23	12 24	33·95	34·10	276 27 10	53 21 0	0	...	G. S. J.	61·40	0 59 27		
,, 30	12 27	33·97	34·07	276 29 5	53 23 30	0	...	G. S. J.	61·30	0 58 54		
MAY 7	13 21	33·92	33·80	276 30 25	53 23 10	0	...	G. S. J.	63·60	1 0 47		
,, 14	12 30	34·05	33·75	276 27 25	53 21 35	0	...	G. S. J.	62·46	0 59 32		
,, 21	12 39	33·95	33·82	276 28 5	53 22 50	0	...	G. S. J.	61·70	0 58 47	62·30	0 59 18
,, 29	12 28	34·00	33·80	276 27 45	53 23 15	0	...	G. S. J.	61·45	0 58 6		
June 4	12 31	33·97	34·10	276 27 55	53 23 25	0	...	G. S. J.	61·00	0 57 48		
,, 11	12 12	33·95	34·12	276 28 15	53 23 20	0	...	G. S. J.	61·40	0 58 11		
,, 18	12 19	33·87	34·32	276 26 50	53 22 50	0	...	G. S. J.	60·50	0 57 0	60·91	0 57 40
,, 25	12 53	34·05	33·87	276 27 40	53 23 35	0	...	G. S. J.	60·75	0 57 40		
July 2	12 8	33·95	34·05	276 29 30	53 23 15	0	...	G. S. J.	62·39	0 59 34		
,, 9	12 34	33·95	34·05	276 29 40	53 23 10	0	...	G. S. J.	62·55	0 59 49		
,, 16	12 28	34·02	33·97	276 26 40	53 22 50	0	...	G. S. J.	60·15	0 57 17	61·46	0 58 43
,, 23	12 15	33·92	34·10	276 28 10	53 22 25	0	...	G. S. J.	61·70	0 59 0		
,, 30	12 33	33·92	34·10	276 27 35	53 22 55	0	...	G. S. J.	60·50	0 57 55		
AUG. 6	12 52	34·02	34·00	276 26 55	53 22 35	0	...	G. S. J.	60·55	0 57 46		
,, 13	12 18	33·95	34·05	276 28 20	53 23 10	0	...	G. S. J.	61·10	0 58 29	60·80	0 58 4
,, 20	12 23	34·05	33·90	276 28 15	53 22 50	0	...	G. S. J.	61·65	0 58 58		
,, 27	12 27	34·05	33·92	276 26 40	53 23 10	0	...	G. S. J.	59·90	0 57 2		
SEPT. 3	14 20	34·07	34·10	276 27 30	53 23 5	10W	0·46	G. S. J.	60·85	0 57 55		
,, 10	12 26	34·02	34·07	276 29 5	53 23 50	0	...	G. S. J.	61·65	0 58 38		
,, 17	12 18	33·85	34·32	276 29 10	53 23 15	0	...	G. S. J.	61·55	0 58 54	61·25	0 58 29
,, 24	12 24	34·00	34·10	276 28 10	53 23 0	0	...	G. S. J.	60·95	0 58 29		
OCT. 1	10 36	34·15	34·06	276 30 5	53 23 20	0	...	G. S. J.	62·65	1 0 15		
,, 8	12 40	34·05	34·00	276 28 45	53 23 35	0	...	G. S. J.	61·35	0 58 37		
,, 15	12 6	34·00	34·02	276 30 5	53 23 10	0	...	G. S. J.	62·90	1 0 19	62·16	0 59 26
,, 22	12 35	33·97	34·07	276 29 25	53 23 50	0	...	G. S. J.	61·90	0 58 54		
,, 29	12 22	33·95	34·10	276 29 45	53 23 55	0	...	G. S. J.	62·00	0 59 7		
NOV. 5	12 26	33·97	34·17	276 30 0	53 23 55	0	...	G. S. J.	61·75	0 59 19		
,, 13	12 15	34·05	33·92	276 29 25	53 23 50	0	...	G. S. J.	61·75	0 59 7	62·64	1 0 7
,, 19	12 34	34·05	33·92	276 31 15	53 23 40	0	...	G. S. J.	63·65	1 1 7		
,, 27	11 33	33·92	34·25	276 31 5	53 23 15	0	...	G. S. J.	63·40	1 0 57		
DEC. 3	13 1	33·95	34·07	276 32 15	53 23 30	0	...	G. S. J.	64·10	1 2 3		
,, 10	12 46	33·90	34·17	276 30 25	53 23 30	0	...	G. S. J.	62·20	1 0 5		
,, 18	12 33	33·95	34·07	276 30 35	53 23 35	0	...	G. S. J.	62·65	1 0 18	62·49	1 0 15
,, 24	12 41	33·97	33·87	276 29 55	53 23 5	10W	0·64	G. S. J.	62·90	1 0 29		
,, 31	12 29	34·02	34·12	276 28 15	53 23 15	0	...	G. S. J.	60·60	0 58 19		

The mean observed Declination for the year 1908 = 0° 59′ 51″

Absolute Magnetical Observations, Alibag—Table IIIa.

OBSERVATIONS OF INCLINATION, 1908.

Taken with Dip Circle No. 160 (Cambridge Scientific Instrument Co.) and two 3½-inch Needles Nos. 1 and 2 by Dover.

1908. Date.	Alibag Civil Time (0 to 24 hours) At commencement.		At conclusion.		Observer.	Needle marked.	End of needle dipping. A. Face of Circle. East.		A. Face of Circle. West.		B. Face of Circle. East.		B. Face of Circle. West.		Mean Dip.		Monthly Mean for each needle.	Monthly Mean.
	H.	m.	H.	m.			°	′	°	′	°	′	°	′	°	′		° ′
JAN. 3	13	53	14	52	G. S. J.	1	23	23·0	23	26·1	23	12·4	23	19·0	23	20·1		
,, ,,	15	0	15	54	G. S. J.	2	23	16·2	23	23·2	23	14·2	23	17·1	23	17·7		
,, 7	11	23	12	22	G. S. J.	1	23	15·4	23	29·7	23	9·1	23	17·6	23	17·9		
,, ,,	12	31	13	25	G. S. J.	2	23	15·4	23	24·5	23	10·9	23	19·4	23	17·5		
,, 10	13	21	14	28	G. S. J.	1	23	18·6	23	28·1	23	9·7	23	20·7	23	19·3	No. 1	
,, ,,	14	38	15	32	G. S. J.	2	23	16·4	23	25·1	23	9·0	23	22·8	23	18·3		
,, 14	11	50	12	48	G. S. J.	1	23	12·5	23	28·8	23	7·1	23	19·1	23	16·9	° ′ 23 17·1	
,, ,,	12	58	13	53	G. S. J.	2	23	16·9	23	22·7	23	14·0	23	20·7	23	18·6		
,, 17	13	50	14	51	G. S. J.	1	23	13·4	23	25·9	23	5·7	23	19·6	23	16·1		
,, ,,	15	0	15	55	G. S. J.	2	23	15·6	23	27·2	23	7·4	23	18·9	23	17·3		23 17·3
,, 21	11	44	12	36	G. S. J.	1	23	11·4	23	25·6	22	59·9	23	16·9	23	13·4		
,, ,,	12	44	13	28	G. S. J.	2	23	16·6	23	28·0	23	4·5	23	21·8	23	17·7		
,, 24	13	53	14	51	G. S. J.	1	23	14·1	23	27·9	23	4·1	23	24·7	23	17·7	No. 2	
,, ,,	15	0	15	54	G. S. J.	2	23	15·2	23	18·2	23	13·4	23	21·9	23	17·2		
,, 28	11	48	12	43	G. S. J.	1	23	16·4	23	26·6	23	2·9	23	18·6	23	16·1	° ′ 23 17·6	
,, ,,	12	53	13	48	G. S. J.	2	23	10·1	23	23·2	23	9·5	23	20·4	23	15·8		
,, 31	13	54	14	52	G. S. J.	1	23	13·2	23	30·5	23	2·6	23	19·6	23	16·5		
,, ,,	15	0	15	52	G. S. J.	2	23	15·7	23	26·4	23	11·6	23	17·9	23	17·9		
FEB. 4	11	26	12	26	G. S. J.	1	23	15·1	23	31·0	23	6·6	23	24·1	23	19·2		
,, ,,	12	34	13	25	G. S. J.	2	23	15·6	23	29·8	23	10·2	23	23·6	23	19·8		
,, 7	13	51	14	45	G. S. J.	1	23	16·5	23	30·7	23	6·9	23	22·9	23	19·2		
,, ,,	14	55	15	48	G. S. J.	2	23	15·6	23	26·5	23	13·7	23	21·4	23	19·3		
,, 11	11	50	12	48	G. S. J.	1	23	16·1	23	28·4	23	6·6	23	19·0	23	17·5	No. 1	
,, ,,	12	57	13	50	G. S. J.	2	23	14·7	23	24·4	23	6·9	23	25·2	23	17·8		
,, 14	13	53	14	51	G. S. J.	1	23	17·7	23	27·2	23	7·7	23	18·7	23	17·8	° ′ 23 18·7	
,, ,,	15	2	15	52	G. S. J.	2	23	15·2	23	25·6	23	8·3	23	19·9	23	17·2		
,, 18	11	28	12	24	G. S. J.	1	23	24·4	23	26·7	23	10·2	23	20·4	23	20·4		23 18·6
,, ,,	12	34	13	29	G. S. J.	2	23	19·4	23	24·6	23	9·7	23	20·2	23	18·5		
,, 21	13	50	14	48	G. S. J.	1	23	22·2	23	23·6	23	11·1	23	13·6	23	17·6		
,, ,,	14	57	15	49	G. S. J.	2	23	14·2	23	28·4	23	11·4	23	18·6	23	18·1	No. 2	
,, 25	11	28	12	24	G. S. J.	1	23	19·1	23	27·6	23	12·5	23	16·9	23	19·0		
,, ,,	12	33	13	27	G. S. J.	2	23	17·4	23	27·7	23	11·6	23	20·0	23	19·2	° ′ 23 18·6	
,, 28	13	52	14	50	G. S. J.	1	23	22·0	23	24·3	23	11·5	23	16·9	23	18·7		
,, ,,	14	58	15	50	G. S. J.	2	23	20·6	23	25·6	23	11·5	23	17·2	23	18·7		
MAR. 4	11	27	12	23	G. S. J.	1	23	20·7	23	22·2	23	10·7	23	14·4	23	17·0		
,, ,,	12	32	13	26	G. S. J.	2	23	11·5	23	23·9	23	7·1	23	20·1	23	15·6		
,, 6	13	53	14	50	G. S. J.	1	23	17·4	23	25·7	23	8·4	23	18·9	23	17·6		
,, ,,	14	58	15	50	G. S. J.	2	23	14·6	23	26·8	23	13·6	23	22·6	23	19·4		
,, 10	11	50	12	45	G. S. J.	1	23	19·5	23	25·6	23	7·4	23	17·7	23	17·5	No. 1	
,, ,,	12	53	13	50	G. S. J.	2	23	16·4	23	24·6	23	10·8	23	22·7	23	18·6		
,, 13	14	0	14	58	N.	1	23	21·5	23	29·0	23	9·2	23	18·5	23	19·5	° ′ 23 19·8	
,, ,,	15	8	16	0	N.	2	23	20·1	23	28·0	23	12·9	23	17·4	23	19·6		
,, 17	11	39	12	32	N.	1	23	21·5	23	30·5	23	10·9	23	23·9	23	21·7		
,, ,,	12	42	13	36	N.	2	23	22·6	23	25·6	23	7·1	23	25·8	23	20·3		23 19·8
,, 20	13	56	14	50	N.	1	23	24·4	23	33·2	23	8·9	23	24·3	23	22·7		
,, ,,	15	0	15	46	N.	2	23	16·2	23	31·9	23	5·9	23	30·4	23	21·1		
,, 24	11	0	11	55	N.	1	23	18·1	23	31·0	23	0·1	23	19·2	23	17·1	No. 2	
,, ,,	12	6	13	4	N.	2	23	13·7	23	28·6	23	12·4	23	22·5	23	19·3		
,, 28	14	1	14	59	N.	1	23	22·7	23	36·9	23	11·9	23	23·2	23	23·7	° ′ 23 19·9	
,, ,,	15	12	16	7	N.	2	23	21·3	23	33·0	23	13·8	23	28·9	23	24·2		
,, 31	11	45	12	50	N.	1	23	21·4	23	32·0	23	10·0	23	22·0	23	21·3		
,, ,,	13	1	13	56	N.	2	23	19·1	23	30·8	23	10·9	23	24·2	23	21·2		
APR. 3	14	22	15	15	N.	1	23	19·1	23	27·3	23	9·7	23	22·5	23	19·6		
,, ,,	15	25	16	22	N.	2	23	25·4	23	30·6	23	7·4	23	26·4	23	22·4		
,, 7	11	32	12	26	N.	1	23	23·6	23	29·7	23	9·6	23	20·9	23	20·9		
,, ,,	12	37	13	35	N.	2	23	21·5	23	31·7	23	16·1	23	24·6	23	23·5	No. 1	
,, 10	14	9	15	6	N.	1	23	19·1	23	33·4	23	12·9	23	22·8	23	22·0		
,, ,,	15	16	16	10	N.	2	23	22·5	23	33·5	23	13·1	23	23·4	23	23·1	° ′ 23 19·7	
,, 14	11	28	12	28	G. S. J.	1	23	22·6	23	32·2	23	7·9	23	17·9	23	20·1		
,, ,,	12	37	13	29	G. S. J.	2	23	17·1	23	23·9	23	15·9	23	17·6	23	18·6		23 20·0
,, 17	14	51	15	41	G. S. J.	1	23	21·3	23	30·4	23	11·2	23	20·1	23	20·7		
,, ,,	15	52	16	32	G. S. J.	2	23	16·9	23	26·2	23	9·7	23	23·1	23	19·0		
,, 21	11	48	12	48	G. S. J.	1	23	18·9	23	29·1	23	3·1	23	17·0	23	17·0	No. 2	
,, ,,	12	57	13	48	G. S. J.	2	23	15·0	23	23·2	23	8·1	23	19·9	23	16·5		
,, 24	13	53	14	49	G. S. J.	1	23	19·4	23	30·4	23	9·6	23	18·1	23	19·4	° ′ 23 20·4	
,, ,,	14	57	15	54	G. S. J.	2	23	19·7	23	26·5	23	11·8	23	23·1	23	20·3		
,, 28	11	48	12	40	G. S. J.	1	23	20·3	23	27·8	23	6·5	23	17·6	23	18·0		
,, ,,	12	50	13	47	G. S. J.	2	23	16·7	23	32·0	23	9·6	23	20·6	23	19·7		

1908. Date.	Alibag Civil Time (0 to 24 hours) At commencement.		At conclusion.		Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.		A. Face of Circle. West.		B. Face of Circle. East.		B. Face of Circle. West.		Mean Dip.	Monthly Mean for each needle.	Monthly Mean.
	h.	m.	h.	m.			°	′	°	′	°	′	°	′	° ′	° ′	° ′
MAY 1	14	15	15	10	G. S. J.	1	23	24·2	23	31·2	23	8·9	23	19·1	23 20·8		
,, ,,	15	19	16	13	G. S. J.	2	23	17·4	23	29·4	23	13·1	23	21·8	23 20·4		
,, 5	11	20	12	18	G. S. J.	1	23	21·5	23	23·2	23	11·7	23	21·9	23 19·6		
,, ,,	12	28	13	29	G. S. J.	2	23	19·0	23	27·9	23	10·3	23	18·8	23 19·0		
,, 8	13	52	14	53	G. S. J.	1	23	22·3	23	27·7	23	9·2	23	18·5	23 19·4	No. 1	
,, ,,	15	2	15	51	G. S. J.	2	23	18·7	23	28·1	23	10·6	23	24·9	23 20·6	° ′	
,, 12	11	28	12	24	G. S. J.	1	23	18·1	23	26·6	23	5·7	23	17·6	23 17·0	23 19·9	
,, ,,	12	33	13	26	G. S. J.	2	23	17·7	23	24·4	23	13·1	23	19·7	23 18·7		
,, 15	14	19	15	14	G. S. J.	1	23	21·5	23	25·2	23	11·0	23	23·7	23 20·3		23 20·1
,, ,,	15	22	16	23	G. S. J.	2	23	18·4	23	29·0	23	12·2	23	21·2	23 20·2		
,, 19	11	28	12	27	G. S. J.	1	23	19·1	23	28·5	23	7·0	23	15·7	23 17·6		
,, ,,	12	35	13	25	G. S. J.	2	23	13·7	23	22·9	23	11·1	23	23·4	23 17·8		
,, 22	13	55	14	54	G. S. J.	1	23	23·4	23	27·6	23	9·7	23	17·6	23 19·6	No. 2	
,, ,,	15	2	15	54	G. S. J.	2	23	16·0	23	25·3	23	10·4	23	26·1	23 19·4	° ′	
,, 26	11	53	12	46	G. S. J.	1	23	24·7	23	33·5	23	10·1	23	26·1	23 23·6	23 20·3	
,, ,,	12	55	13	50	G. S. J.	2	23	15·6	23	31·0	23	16·6	23	29·2	23 23·1		
,, 29	14	20	15	18	G. S. J.	1	23	21·2	23	33·2	23	7·7	23	22·4	23 21·1		
,, ,,	15	27	16	17	G. S. J.	2	23	23·8	23	32·6	23	12·4	23	25·4	23 23·5		
JUNE 2	11	30	12	26	G. S. J.	1	23	20·3	23	26·9	23	5·6	23	18·9	23 17·9		
,, ,,	12	34	13	27	G. S. J.	2	23	12·6	23	29·2	23	10·4	23	23·2	23 18·8		
,, 5	13	53	14	50	G. S. J.	1	23	20·2	23	28·3	23	9·1	23	17·3	23 18·7		
,, ,,	15	0	15	53	G. S. J.	2	23	13·1	23	30·4	23	11·9	23	24·5	23 20·0		
,, 9	11	28	12	26	G. S. J.	1	23	22·9	23	35·4	23	8·9	23	18·0	23 21·3	No. 1	
,, ,,	12	36	13	31	G. S. J.	2	23	15·0	23	30·9	23	8·9	23	26·0	23 20·2	° ′	
,, 12	13	52	14	50	G. S. J.	1	23	19·9	23	28·4	23	13·4	23	22·0	23 20·9	23 19·5	
,, ,,	14	58	15	51	G. S. J.	2	23	12·0	23	29·2	23	11·4	23	28·2	23 20·2		
,, 16	11	30	12	25	G. S. J.	1	23	17·3	23	30·6	23	7·9	23	21·6	23 19·3		23 19·8
,, ,,	12	35	13	28	G. S. J.	2	23	13·6	23	30·6	23	10·2	23	25·4	23 19·0		
,, 19	13	50	14	47	G. S. J.	1	23	21·2	23	29·6	23	9·6	23	21·3	23 20·4		
,, ,,	14	56	15	48	G. S. J.	2	23	17·4	23	31·1	23	11·9	23	28·2	23 22·1		
,, 23	11	35	12	29	G. S. J.	1	23	16·6	23	28·8	23	2·8	23	19·3	23 16·8	No. 2	
,, ,,	12	38	13	32	G. S. J.	2	23	13·5	23	27·1	23	13·6	23	22·1	23 19·1	° ′	
,, 27	14	47	15	40	G. S. J.	1	23	21·3	23	34·9	23	8·0	23	20·9	23 21·3	23 20·2	
,, ,,	16	5	16	58	G. S. J.	2	23	16·2	23	32·6	23	13·9	23	27·6	23 22·6		
,, 30	11	30	12	27	G. S. J.	1	23	18·2	23	28·6	23	12·8	23	16·3	23 19·0		
,, ,,	12	37	13	30	G. S. J.	2	23	15·9	23	24·6	23	12·9	23	21·9	23 18·8		
JULY 3	13	54	14	53	G. S. J.	1	23	20·7	23	34·4	23	4·8	23	25·2	23 21·3		
,, ,,	15	0	15	52	G. S. J.	2	23	13·7	23	32·1	23	11·5	23	29·7	23 21·7		
,, 7	11	44	12	43	G. S. J.	1	23	22·3	23	29·1	23	14·5	23	19·0	23 21·2		
,, ,,	12	52	13	48	G. S. J.	2	23	20·4	23	29·2	23	13·0	23	21·7	23 21·1		
,, 10	13	32	14	28	G. S. J.	1	23	13·7	23	34·9	23	9·9	23	23·9	23 20·6		
,, ,,	14	36	15	30	G. S. J.	2	23	17·0	23	26·1	23	15·3	23	20·7	23 19·8	No. 1	
,, 14	11	53	12	50	G. S. J.	1	23	25·9	23	30·1	23	11·1	23	19·8	23 21·7	° ′	
,, ,,	12	58	13	50	G. S. J.	2	23	14·6	23	26·0	23	15·3	23	22·4	23 19·6	23 20·0	
,, 17	13	52	14	50	G. S. J.	1	23	22·7	23	24·4	23	12·6	23	16·7	23 19·1		23 20·5
,, ,,	14	58	15	55	G. S. J.	2	23	15·8	23	29·4	23	14·6	23	27·4	23 21·8		
,, 21	11	43	12	45	G. S. J.	1	23	19·9	23	28·2	23	6·4	23	15·4	23 17·5		
,, ,,	12	54	13	50	G. S. J.	2	23	19·4	23	22·5	23	16·5	23	20·5	23 19·7		
,, 24	13	30	14	24	G. S. J.	1	23	20·1	23	28·3	23	10·2	23	19·1	23 19·4	No. 2	
,, ,,	14	33	15	28	G. S. J.	2	23	21·2	23	26·0	23	20·7	23	20·1	23 22·0	° ′	
,, 28	11	18	12	17	G. S. J.	1	23	17·6	23	32·6	23	7·4	23	19·6	23 19·3	23 21·0	
,, ,,	12	26	13	22	G. S. J.	2	23	17·0	23	28·0	23	13·7	23	25·2	23 21·0		
,, 31	13	53	14	49	G. S. J.	1	23	20·4	23	31·7	23	7·2	23	21·7	23 20·2		
,, ,,	14	58	15	53	G. S. J.	2	23	17·5	23	28·9	23	12·2	23	29·6	23 22·0		
AUG. 4	11	5	12	2	G. S. J.	1	23	19·1	23	33·3	23	8·2	23	17·2	23 19·4		
,, ,,	12	18	13	10	G. S. J.	2	23	15·8	23	26·1	23	9·7	23	22·7	23 18·6		
,, 7	13	51	14	48	G. S. J.	1	23	23·3	23	32·7	23	10·7	23	21·1	23 21·9		
,, ,,	14	56	15	50	G. S. J.	2	23	18·6	23	30·4	23	18·1	23	23·5	23 22·6	No. 1	
,, 11	11	50	12	45	G. S. J.	1	23	25·7	23	29·1	23	9·4	23	17·7	23 20·5	° ′	
,, ,,	12	53	13	49	G. S. J.	2	23	21·4	23	31·9	23	17·1	23	26·6	23 24·2	23 21·4	
,, 14	13	39	14	35	G. S. J.	1	23	21·1	23	36·9	23	9·6	23	26·7	23 23·6		
,, ,,	14	43	15	34	G. S. J.	2	23	22·3	23	35·2	23	17·7	23	24·1	23 24·8		
,, 18	11	52	12	47	G. S. J.	1	23	20·4	23	32·2	23	10·7	23	21·2	23 21·1		23 22·3
,, ,,	12	56	13	50	G. S. J.	2	23	19·0	23	30·7	23	16·2	23	24·4	23 22·6		
,, 21	13	51	14	52	G. S. J.	1	23	18·9	23	36·1	23	9·9	23	24·7	23 22·4	No. 2	
,, ,,	15	0	15	52	G. S. J.	2	23	22·4	23	31·2	23	18·6	23	29·6	23 25·3	° ′	
,, 25	11	32	12	27	G. S. J.	1	23	23·5	23	31·5	23	11·2	23	18·4	23 21·1	23 23·2	
,, ,,	12	36	13	31	G. S. J.	2	23	20·1	23	32·1	23	14·7	23	26·4	23 23·3		
,, 28	13	53	14	46	G. S. J.	1	23	19·9	23	34·1	23	13·2	23	19·0	23 21·5		
,, ,,	14	55	15	48	G. S. J.	2	23	20·7	23	28·2	23	19·3	23	29·2	23 24·3		

1908. Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		° ′
SEPT. 1	11 35	12 33	G.S.J.	1	23 23·7	23 27·6	23 9·1	23 17·5	23 19·5		
,, ,,	12 54	13 48	G.S.J.	2	23 14·4	23 33·3	23 16·2	23 26·6	23 22·6		
,, 4	13 51	14 47	G.S.J.	1	23 21·9	23 33·2	23 8·4	23 19·1	23 20·6		
,, ,,	14 55	15 48	G.S.J.	2	23 15·4	23 35·8	23 16·3	23 26·6	23 23·5	No. 1	
,, 8	11 28	12 28	G.S.J.	1	23 21·7	23 31·8	23 8·6	23 18·4	23 20·1	° ′	
,, ,,	12 35	13 30	G.S.J.	2	23 17·1	23 31·8	23 17·7	23 28·2	23 23·7	23 22·1	
,, 11	13 50	14 46	G.S.J.	1	23 22·8	23 34·2	23 11·7	23 18·6	23 21·8		
,, ,,	14 54	15 48	G.S.J.	2	23 20·6	23 32·9	23 14·6	23 26·2	23 23·6		
,, 15	11 50	12 44	G.S.J.	1	23 28·1	23 27·2	23 15·9	23 16·9	23 22·0		23 22·9
,, ,,	12 53	13 47	G.S.J.	2	23 21·0	23 29·6	23 17·4	23 26·4	23 23·6		
,, 18	13 54	14 53	G.S.J.	1	23 22·1	23 35·1	23 13·9	23 21·7	23 23·2		
,, ,,	15 0	15 52	G.S.J.	2	23 29·4	23 24·9	23 20·9	23 27·0	23 25·5		
,, 22	11 54	12 50	G.S.J.	1	23 21·7	23 32·7	23 5·1	23 26·0	23 21·4	No. 2	
,, ,,	12 58	13 52	G.S.J.	2	23 13·9	23 35·1	23 4·7	23 32·4	23 21·5	° ′	
,, 26	13 55	14 52	G.S.J.	1	23 25·8	23 32·9	23 8·4	23 24·0	23 22·8	23 23·7	
,, ,,	15 0	15 55	G.S.J.	2	23 16·7	23 34·0	23 15·1	23 26·1	23 23·0		
,, 29	14 8	14 57	G.S.J.	1	23 29·5	23 41·7	23 12·6	23 26·1	23 27·5		
,, ,,	15 4	15 53	G.S.J.	2	23 20·7	23 35·4	23 20·7	23 29·9	23 26·7		
OCT. 2	14 7	15 0	G.S.J.	1	23 30·9	23 33·4	23 15·3	23 21·3	23 25·2		
,, ,,	15 8	16 0	G.S.J.	2	23 25·1	23 33·5	23 17·9	23 25·6	23 25·5		
,, 6	11 53	12 47	G.S.J.	1	23 26·1	23 33·6	23 11·9	23 17·7	23 22·3		
,, ,,	12 55	13 48	G.S.J.	2	23 21·5	23 32·7	23 18·2	23 26·1	23 24·6		
,, 9	13 55	14 48	G.S.J.	1	23 27·9	23 30·2	23 14·7	23 22·0	23 23·7	No. 1	
,, ,,	14 57	15 48	G.S.J.	2	23 21·5	23 35·1	23 18·4	23 27·1	23 25·5	° ′	
,, 13	11 44	12 40	G.S.J.	1	23 26·9	23 31·2	23 14·7	23 22·0	23 23·7	23 23·2	
,, ,,	12 47	13 36	G.S.J.	2	23 20·2	23 30·2	23 18·1	23 26·2	23 23·7		
,, 16	13 25	14 35	G.S.J.	1	23 30·3	23 30·4	23 16·9	23 20·3	23 24·5		
,, ,,	14 42	15 33	G.S.J.	2	23 18·6	23 29·9	23 15·2	23 25·6	23 22·3		23 23·6
,, 20	12 3	12 58	G.S.J.	1	23 22·9	23 32·7	23 11·4	23 15·9	23 20·7		
,, ,,	13 5	13 55	G.S.J.	2	23 21·9	23 29·7	23 15·4	23 26·0	23 23·2		
,, 23	13 40	14 38	G.S.J.	1	23 25·6	23 29·5	23 11·3	23 17·9	23 21·1	No. 2	
,, ,,	14 45	15 36	G.S.J.	2	23 19·6	23 31·7	23 14·3	23 26·4	23 23·0	° ′	
,, 27	11 41	12 38	G.S.J.	1	23 28·4	23 36·6	23 13·2	23 20·7	23 24·7	23 24·0	
,, ,,	12 45	13 36	G.S.J.	2	23 21·8	23 33·3	23 13·9	23 25·4	23 23·6		
,, 30	13 52	14 42	G.S.J.	1	23 24·9	23 32·9	23 13·1	23 21·1	23 23·0		
,, ,,	14 50	15 40	G.S.J.	2	23 23·3	23 35·2	23 13·4	23 27·6	23 24·9		
NOV. 3	11 35	12 30	G.S.J.	1	23 22·5	23 35·2	23 9·9	23 20·3	23 22·0		
,, ,,	12 38	13 30	G.S.J.	2	23 18·9	23 34·7	23 16·7	23 29·2	23 24·9		
,, 6	13 53	14 51	G.S.J.	1	23 22·6	23 33·4	23 13·6	23 20·3	23 22·5		
,, ,,	14 58	15 50	G.S.J.	2	23 20·4	23 34·8	23 15·1	23 22·4	23 23·2	No. 1	
,, 10	11 44	12 36	G.S.J.	1	23 25·4	23 34·7	23 11·4	23 23·2	23 23·7	° ′	
,, ,,	12 44	13 36	G.S.J.	2	23 20·6	23 38·6	23 17·2	23 28·6	23 26·2	23 23·7	
,, 13	13 54	14 52	G.S.J.	1	23 24·9	23 38·8	23 10·8	23 21·4	23 24·0		
,, ,,	15 0	15 50	G.S.J.	2	23 21·5	23 30·6	23 19·2	23 24·1	23 23·8		
,, 17	11 52	12 48	G.S.J.	1	23 25·9	23 38·6	23 13·9	23 19·8	23 24·5		23 24·1
,, ,,	12 55	13 48	G.S.J.	2	23 23·1	23 32·3	23 15·9	23 26·1	23 24·3		
,, 20	13 52	14 45	G.S.J.	1	23 28·7	23 37·6	23 15·6	23 21·7	23 25·9	No. 2	
,, ,,	14 54	15 48	G.S.J.	2	23 24·6	23 34·6	23 15·4	23 24·8	23 24·8	° ′	
,, 24	11 45	12 42	G.S.J.	1	23 23·6	23 32·1	23 12·2	23 22·7	23 22·6	23 24·5	
,, ,,	12 49	13 38	G.S.J.	2	23 22·3	23 33·6	23 16·6	23 27·6	23 25·0		
,, 27	14 4	14 54	G.S.J.	1	23 25·2	23 35·1	23 14·1	23 23·3	23 24·4		
,, ,,	15 2	15 52	G.S.J.	2	23 21·9	23 31·3	23 15·6	23 26·2	23 23·7		
DEC. 1	11 41	12 40	G.S.J.	1	23 24·0	23 39·2	23 10·8	23 20·4	23 23·6		
,, ,,	12 47	13 38	G.S.J.	2	23 23·9	23 30·1	23 17·6	23 25·1	23 24·2		
,, 4	13 48	14 44	G.S.J.	1	23 23·9	23 31·8	23 13·4	23 20·3	23 22·3		
,, ,,	14 52	15 40	G.S.J.	2	23 19·8	23 34·5	23 16·1	23 28·3	23 24·7	No. 1	
,, 8	11 56	12 50	G.S.J.	1	23 28·6	23 36·6	23 11·1	23 26·2	23 25·6	° ′	
,, ,,	12 58	13 52	G.S.J.	2	23 24·9	23 34·3	23 18·0	23 27·7	23 26·2	23 23·7	
,, 11	13 53	14 47	G.S.J.	1	23 27·2	23 37·1	23 15·2	23 20·7	23 25·0		
,, ,,	14 55	15 48	G.S.J.	2	23 20·6	23 33·9	23 17·6	23 28·6	23 25·2		
,, 16	11 55	12 50	G.S.J.	1	23 23·1	23 32·1	23 11·8	23 22·4	23 22·3		23 24·2
,, ,,	12 57	13 50	G.S.J.	2	23 23·0	23 35·2	23 14·8	23 26·4	23 24·8		
,, 18	14 2	14 53	G.S.J.	1	23 25·5	23 31·0	23 14·2	23 23·3	23 23·5		
,, ,,	15 0	15 51	G.S.J.	2	23 20·6	23 33·1	23 15·1	23 25·2	23 23·5		
,, 22	11 54	12 48	G.S.J.	1	23 29·7	23 32·9	23 12·4	23 22·8	23 24·4	No. 2	
,, ,,	12 56	13 48	G.S.J.	2	23 20·5	23 32·4	23 15·9	23 27·2	23 24·0	° ′	
,, 25	13 48	14 42	G.S.J.	1	23 24·9	23 34·6	23 14·5	23 22·2	23 24·0	23 24·6	
,, ,,	14 49	15 38	G.S.J.	2	23 21·1	23 35·6	23 14·8	23 20·7	23 25·3		
,, 29	11 46	12 41	G.S.J.	1	23 21·5	23 31·5	23 14·4	23 22·7	23 22·5		
,, ,,	12 48	13 40	G.S.J.	2	23 17·9	23 36·4	23 12·8	23 28·6	23 23·9		

The mean Dip for the year ... { With Needle No. 1 = 23 20·7 / With Needle No. 2 = 23 21·5

The mean † observed Dip for the year 1908 = 23 21·1

† The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table IIIb.

SUPPLEMENTARY OBSERVATIONS OF INCLINATION, 1908.

Taken with Dip Circle No. 160 (Cambridge Scientific Instrument Co.) and two Supplementary $3\frac{1}{2}$-inch Needles Nos. 1 and 2 by Dover C. on 4th and 11th January and thereafter with Dip Circle No 110 and two $3\frac{1}{2}$-inch Needles Nos. 1 and 2 by Dover Charlton.

1908. Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		′
JAN. 4	11 30	12 24	G. S. J.	2	23 14·9	23 24·6	23 11·4	23 22·5	23 18·3	No. 1	
,, 11	11 36	12 30	G. S. J.	1	23 4·6	23 20·2	23 15·9	23 30·6	23 17·8	° 23 20·7	23 20·1
,, 18	11 37	12 42	G. S. J.	1	24 19·7	23 56·5	22 55·7	22 22·5	23 23·6	No. 2	
,, 25	11 17	12 20	G. S. J.	2	23 45·7	23 25·6	23 14·9	22 57·4	23 20·9	° 23 19·6	
FEB. 1	11 25	12 23	G. S. J.	1	24 22·2	23 50·6	22 49·9	22 23·0	23 21·4	No. 1	
,, 8	11 30	12 31	G. S. J.	2	23 46·1	23 24·7	23 16·5	22 53·8	23 20·3	° 23 22·0	
,, 15	11 24	12 23	G. S. J.	1	24 21·2	23 49·7	22 58·2	22 22·7	23 22·9		23 21·4
,, 22	11 30	12 27	G. S. J.	2	23 52·3	23 24·1	23 15·7	22 51·0	23 20·8	No. 2	
,, 29	11 30	12 25	G. S. J.	1	24 24·0	23 44·7	22 58·4	22 19·2	23 21·6	° 23 20·5	
MAR. 7	11 24	12 19	G. S. J.	2	23 49·8	23 25·8	23 14·8	22 54·0	23 21·1	No. 1	
,, 14	11 50	12 48	N.	1	24 21·3	23 49·7	22 52·8	22 17·0	23 20·2	° 23 21·5	23 21·0
,, 21	10 34	11 31	N.	2	23 45·8	23 24·0	23 16·6	22 52·3	23 19·7	No. 2	
,, 28	12 8	13 20	N.	1	24 21·5	23 47·6	22 51·9	22 30·7	23 22·9	° 23 20·4	
APRIL 4	11 26	12 23	N.	2	23 44·0	23 19·9	23 18·1	22 55·0	23 19·2	No. 1	
,, 11	11 33	12 38	N.	1	24 21·3	23 45·0	22 53·7	22 16·6	23 19·1	° 23 19·1 No. 2	23 18·6
,, 25	11 55	12 52	G. S. J.	2	24 0·1	23 15·5	23 11·7	22 42·8	23 17·5	° 23 18·3	
MAY 2	11 26	12 22	G. S. J.	1	24 27·5	23 38·1	22 52·5	22 11·2	23 17·3	...	

Absolute Magnetical Observations, Alibag—Table IIIb.

OBSERVATIONS OF INCLINATION.

Taken with Inductor No. 41 by Schulze and Galvanometer No. 200 by Plath.

1908. Date.		Alibag Civil Time (0 to 24 hours) At commencement. H.	m.	At conclusion. H.	m.	Observers.	Face of Circle. East. °	′	West. °	′	Mean Inclination. °	′	Monthly mean Inclination. °	′
JUNE	6	11	51	12	59	G. S. J. and B. P.	23	20·92	23	21·07	23	20·99		
,,	13	12	2	13	17	,,	23	22·13	23	24·35	23	23·24		
,,	20	12	27	13	17	,,	23	22·44	23	23·17	23	22·80	23	22·29
,,	27	12	46	14	15	,,	23	21·10	23	23·16	23	22·13		
JULY	12	12	35	14	20	,,	23	18·21	23	23·37	23	20·79		
,,	18	11	33	12	9	,,	23	18·16	23	19·73	23	18·94	23	20·04
,,	25	11	49	12	40	,,	23	18·81	23	21·98	23	20·39		
AUG.	1	12	5	12	29	,,	23	19·31	23	21·20	23	20·28		
,,	8	12	21	12	56	,,	23	24·06	23	21·22	23	22·64		
,,	15	12	21	12	57	,,	23	18·35	23	21·59	23	19·97	23	21·18
,,	22	11	41	12	57	,,	23	22·69	23	22·37	23	22·53		
,,	29	12	38	13	13	,,	23	21·17	23	19·84	23	20·50		
SEPT.	5	12	39	13	9	,,	23	24·88	23	25·78	23	25·33		
,,	13	13	4	13	37	,,	23	23·85	23	24·38	23	24·11	23	23·17
,,	25	15	27	16	14	,,	23	17·57	23	22·59	23	20·08		
OCT.	3	12	15	12	53	,,	23	19·25	23	21·15	23	20·20		
,,	10	12	32	13	3	,,	23	19·44	23	21·14	23	20·29		
,,	17	12	7	12	50	,,	23	18·49	23	21·28	23	19·88	23	22·23
,,	24	12	47	14	7	,,	23	24·92	23	25·90	23	25·41		
,,	31	12	7	12	42	,,	23	24·05	23	26·68	23	25·36		
NOV.	7	11	55	12	27	,,	23	23·48	23	23·52	23	23·50		
,,	14	12	6	12	34	,,	23	22·42	23	24·97	23	23·69		
,,	21	12	58	13	22	,,	23	25·56	23	26·43	23	25·99	23	24·96
,,	28	12	40	13	16	,,	23	26·05	23	27·27	23	26·66		
DEC.	5	12	5	12	38	,,	23	24·74	23	26·89	23	25·81		
,,	12	12	55	13	27	,,	23	24·88	23	27·57	23	26·22		
,,	19	12	25	13	36	,,	23	24·13	23	26·05	23	25·09	23	25·86
,,	26	12	33	13	14	,,	23	24·48	23	28·16	23	26·32		

The temporary pillar on which the Inductor is mounted is a wooden one and not isolated from the floor of the observation room. The somewhat large differences occasionally noted in the results for face East and face West are probably in the main due to level changes on this account.

Absolute Magnetical Observations, Alibag—Table Ia.

Observations of Vibration and Deflection, taken with the Magnetometer No. 7 (T. Cooke and Sons) for the determination of Absolute Horizontal Force.

1909.

1909. Date.	Civil Time, Mean.	Time of one Vibration.	Vibration Magnet. Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Angle of Deflection of Magnet marked 7. Distance. 22·5 cms.	30·0 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Observer	Calculated Results in C. G. S. Unit. Values of H. Values of m.	From Deflection at distance. 22·5 cms. ($H_{22·5}$).	30·0 cms. ($H_{30·0}$).	Difference. $H_{22·5} - H_{30·0}$	Mean. $\frac{H_{22·5} + H_{30·0}}{2}$	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	cms.	°	° ′ ″	° ′ ″	°	cms	°							
JAN. 6	12 28	2·7074	1·25	27·0	+1·3	7·891	85·0	26 41 46	10 51 21	27·0	7·812	85·0	G. S. J.	939·16	0·36832	0·36833	−·00001	0·36832	
,, ,,	15 13	2·7077	1·28	27·7	,,	7·671	85·0	26 41 36	10 51 16	27·5	7·718	85·0	G. S. J.	939·27	·36831	·36833	−·00002	·36832	
,, 13	12 49	2·7030	1·25	23·9	+1·5	9·355	84·7	26 41 21	10 51 14	23·9	9·280	84·7	G. S. J.	939·20	·36896	·36897	−·00001	·36896	
,, ,,	14 57	2·7041	1·28	24·2	,,	8·584	84·8	26 42 6	10 51 28	24·0	8·746	84·8	G. S. J.	939·10	·36876	·36878	−·00002	·36877	
,, 20	12 25	2·7040	1·25	24·4	+1·6	8·772	84·3	26 42 35	10 51 35	24·6	8·552	84·3	G. S. J.	939·42	·36867	·36871	−·00004	·36869	·368637
,, ,,	15 13	2·7054	1·25	25·1	,,	8·135	84·3	26 42 59	10 51 43	24·9	8·171	84·3	G. S. J.	939·25	·36848	·36853	−·00005	·36850	
,, 27	12 16	2·7035	1·29	24·6	+1·5	9·207	84·0	26 40 51	10 50 56	24·7	9·292	84·0	G. S. J.	939·18	·36893	·36897	−·00004	·36895	
,, ,,	15 13	2·7056	1·21	25·2	,,	8·168	84·0	26 41 52	10 51 21	25·0	8·740	84·0	G. S. J.	938·94	·36858	·36861	−·00003	·36859	
FEB. 3	12 11	2·7064	1·27	24·6	+1·8	7·286	†82·95	26 45 16	10 52 37	24·6	7·175	†82·95	G. S. J.	939·36	·36809	·36812	−·00003	·36810	
,, ,,	15 13	2·7068	1·26	24·7	,,	6·941	82·95	26 45 47	10 52 54	24·6	6·900	82·95	G. S. J.	939·40	·36798	·36799	−·00001	·36798	
,, 10	12 22	2·7050	1·23	25·4	+2·3	8·487	82·70	26 41 45	10 51 22	25·4	8·337	82·70	G. S. J.	939·27	·36865	·36865	·00000	·36865	
,, ,,	15 13	2·7061	1·25	25·9	,,	7·847	82·72	26 42 21	10 51 35	25·9	7·981	82·70	G. S. J.	939·29	·36843	·36845	−·00002	·36844	·368456
,, 17	12 17	2·7052	1·25	25·9	+1·8	8·445	82·80	26 41 16	10 51 7	26·0	8·283	82·80	G. S. J.	939·29	·36865	·36869	−·00004	·36867	
,, ,,	15 14	2·7060	1·26	26·7	,,	8·103	82·87	26 41 22	10 51 13	26·4	8·212	82·85	G. S. J.	939·36	·36857	·36859	−·00002	·36858	
,, 24	12 26	2·7046	1·26	25·7	+0·5	8·721	83·25	26 41 6	10 51 10	25·3	8·607	83·25	G. S. J.	939·29	·36880	·36880	·00000	·36880	
,, ,,	15 15	2·7060	1·26	25·9	,,	7·735	83·25	26 42 27	10 51 42	25·8	7·860	83·25	G. S. J.	939·31	·36843	·36843	·00000	·36843	
MAR. 3	12 25	2·7053	1·27	28·7	+1·0	9·445	83·55	26 36 25	10 49 27	28·7	9·242	83·60	G. S. J.	939·25	·36916	·36913	+·00003	·36914	
,, ,,	15 14	2·7076	1·29	29·3	,,	8·387	83·60	26 37 39	10 49 51	29·1	8·550	83·60	G. S. J.	938·99	·36873	·36873	·00000	·36873	
,, 10	12 40	2·7057	1·27	28·1	+2·0	8·817	84·10	26 37 12	10 49 46	28·3	8·682	84·10	G. S. J.	939·10	·36900	·36899	+·00001	·36899	
,, ,,	14 59	2·7075	1·26	28·7	,,	7·982	84·15	26 38 15	10 50 10	28·4	8·233	84·15	G. S. J.	938·92	·36869	·36866	+·00003	·36867	
,, 17	12 27	2·7053	1·27	28·2	+2·0	8·527	84·75	26 37 57	10 50 4	28·5	8·371	84·75	G. S. J.	939·53	·36896	·36894	+·00002	·36895	·368826
,, ,,	15 12	2·7068	1·27	28·8	,,	8·071	84·75	26 38 29	10 50 8	28·9	8·018	84·75	G. S. J.	939·31	·36872	·36873	−·00001	·36872	
,, 24	12 33	2·7058	1·25	27·9	+2·3	8·440	85·20	26 38 32	10 50 16	27·9	8·165	85·20	G. S. J.	939·27	·36887	·36885	+·00002	·36886	
,, ,,	15 12	2·7076	1·24	28·5	,,	7·442	85·20	26 39 27	10 50 33	28·2	7·595	85·20	G. S. J.	939·10	·36855	·36855	·00000	·36855	
APRIL 1	12 29	2·7068	1·25	29·0	+1·2	8·180	85·95	26 38 18	10 50 5	28·7	7·892	85·95	G. S. J.	939·27	·36877	·36878	−·00001	·36877	
,, ,,	15 15	2·7088	1·27	29·5	,,	7·076	85·95	26 38 56	10 50 25	29·1	7·378	85·95	G. S. J.	938·97	·36844	·36843	+·00001	·36843	
,, 7	12 21	2·7069	1·27	28·8	+1·6	8·548	86·35	26 37 5	10 49 40	28·5	8·420	86·35	G. S. J.	938·86	·36889	·36888	+·00001	·36888	
,, ,,	15 15	2·7072	1·28	28·9	,,	7·811	86·37	26 37 38	10 49 56	29·0	7·990	86·35	G. S. J.	939·03	·36876	·36874	+·00002	·36875	
,, 14	12 21	2·7056	1·29	28·9	+1·0	8·567	86·60	26 36 15	10 49 25	29·0	8·397	86·60	G. S. J.	939·23	·36913	·36911	+·00002	·36912	
,, ,,	15 13	2·7069	1·26	28·9	,,	7·722	86·60	26 37 33	10 49 53	29·0	7·890	86·60	G. S. J.	939·12	·36881	·36879	+·00002	·36880	
,, 21	12 31	2·7068	1·28	30·3	+1·1	8·545	86·80	26 35 54	10 49 15	29·5	8·337	86·80	G. S. J.	939·12	·36907	·36905	+·00002	·36906	
,, ,,	15 15	2·7083	1·26	30·4	,,	7·645	86·80	26 36 26	10 49 31	30·3	7·834	86·80	G. S. J.	938·97	·36875	·36871	+·00004	·36873	
,, 28	12 30	2·7070	1·29	29·8	+1·0	8·032	87·10	26 36 43	10 49 35	29·5	7·982	87·10	G. S. J.	939·18	·36892	·36889	+·00003	·36890	
,, ,,	15 16	2·7085	1·28	29·6	,,	7·215	87·10	26 37 47	10 49 55	29·8	7·500	87·10	G. S. J.	938·94	·36855	·36855	·00000	·36855	

1909. Date.	Civil Time, Mean.	Vibration Magnet. Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Angle of Deflection of Magnet marked 7. Distance. 22·5 cms.	30·0 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Observer.	Calculated Results in C. G. S. Unit. Values of m.	Values of H. From Deflection at distance. 22·5 cms. ($H_{22\cdot5}$).	30·0 cms. ($H_{30\cdot0}$).	Difference. $H_{22\cdot5} - H_{30\cdot0}$.	Mean. $\frac{H_{22\cdot5}+H_{30\cdot0}}{2}$.	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	cms.	°	° ′ ″	′ ′ ″	°	cms.	°							
MAY 5	12 37	2·7073	1·24	30·9	+1·2	8·226	87·60	26 35 12	10 49 5	30·7	8·102	87·60	G. S. J.	939·20	·36903	·36898	+·00005	·36900	
,, ,,	15 2	2·7082	1·25	30·9	,,	7·645	87·60	26 35 42	10 49 12	31·0	7·726	87·60	G. S. J.	939·07	·36882	·36880	+·00002	·36881	
,, 12	12 36	2·7067	1·26	29·9	+1·1	7·981	88·25	26 36 27	10 49 25	29·5	7·928	88·25	G. S. J.	939·20	·36899	·36899	·00000	·36899	
,, ,,	15 15	2·7083	1·26	30·1	,,	7·303	88·25	26 36 55	10 49 38	30·1	7·522	88·25	G. S. J.	938·97	·36869	·36867	+·00002	·36868	
,, 19	12 34	2·7109	1·27	30·1	+1·2	5·425	88·85	26 41 6	10 51 8	29·7	5·393	88·85	G. S. J.	939·10	·36793	·36794	-·00001	·36793	·368590
,, ,,	15 14	2·7117	1·26	30·5	,,	5·212	88·85	26 40 52	10 51 3	30·5	5·316	88·85	G. S. J.	939·03	·36782	·36782	·00000	·36782	
,, 26	12 27	2·7076	1·26	30·5	+0·8	7·797	89·55	26 35 47	10 49 12	30·0	7·588	89·55	G. S. J.	938·99	·36895	·36894	+·00001	·36894	
,, ,,	15 16	2·7088	1·28	30·2	,,	6·757	89·55	26 36 55	10 49 41	30·7	6·845	89·55	G. S. J.	938·97	·36856	·36854	+·00002	·36855	
JUNE 2	12 30	2·7090	1·28	31·7	+0·8	7·113	90·30	26 36 6	10 49 19	31·0	7·105	90·30	G. S. J.	939·05	·36873	·36871	+·00002	·36872	
,, ,,	15 15	2·7093	1·25	30·9	,,	6·535	90·30	26 36 40	10 49 40	31·5	6·602	90·30	G. S. J.	939·07	·36852	·36846	+·00006	·36849	
,, 9	12 25	2·7069	1·27	29·9	+0·9	7·540	90·25	26 36 40	10 49 29	29·3	7·555	90·30	G. S. J.	939·12	·36896	·36896	·00000	·36896	
,, ,,	15 13	2·7072	1·27	28·9	,,	7·043	90·30	26 37 23	10 49 44	29·4	7·266	90·30	G. S. J.	939·01	·36874	·36875	-·00001	·36874	
,, 16	12 8	2·7077	1·26	29·9	+0·9	7·358	89·70	26 36 34	10 49 33	29·8	7·261	89·70	G. S. J.	938·99	·36881	·36878	+·00003	·36879	·368642
,, ,,	15 13	2·7086	1·26	29·9	,,	6·665	89·70	26 37 14	10 49 47	29·9	6·872	89·70	G. S. J.	938·88	·36861	·36859	+·00002	·36860	
,, 23	12 21	2·7081	1·27	28·9	+0·2	6·532	89·15	26 39 7	10 50 22	29·0	6·400	89·15	G. S. J.	939·07	·36848	·36849	-·00001	·36848	
,, ,,	15 12	2·7102	1·25	29·9	,,	5·467	89·20	26 39 25	10 50 34	29·6	5·938	89·20	G. S. J.	938·81	·36819	·36818	+·00001	·36818	
,, 30	12 16	2·7066	1·26	28·7	+1·2	7·218	88·10	26 37 45	10 49 56	28·8	7·206	88·10	G. S. J.	939·18	·36883	·36882	+·00001	·36882	
,, ,,	15 15	2·7081	1·27	29·2	,,	6·607	88·10	26 37 40	10 49 55	29·1	6·965	88·10	G. S. J.	938·81	·36865	·36864	+·00001	·36864	
JULY 7	12 30	2·7052	1·25	28·1	+1·4	7·859	87·10	26 36 55	10 49 38	27·8	8·015	87·10	G. S. J.	939·10	·36915	·36913	+·00002	·36914	
,, ,,	15 14	2·7065	1·26	28·5	,,	7·389	87·20	26 37 4	10 49 41	28·3	7·703	87·20	G. S. J.	938·86	·36894	·36893	-·00001	·36893	
,, 14	12 14	2·7045	1·25	26·6	+0·9	7·830	85·50	26 38 42	10 50 17	26·9	7·690	85·50	G. S. J.	939·23	·36899	·36899	·00000	·36899	
,, ,,	14 51	2·7062	1·25	27·2	,,	7·187	85·65	26 39 34	10 50 30	27·0	7·382	85·65	G. S. J.	938·99	·36871	·36874	-·00003	·36872	
,, 21	12 15	2·7049	1·26	28·0	+0·1	8·280	85·45	26 36 53	10 49 36	27·9	8·075	85·45	G. S. J.	939·14	·36917	·36916	+·00001	·36916	·368874
,, ,,	15 14	2·7071	1·26	28·1	,,	6·917	85·45	26 38 32	10 50 14	28·2	7·148	85·45	G. S. J.	938·92	·36868	·36866	+·00002	·36867	
,, 28	12 17	2·7065	1·25	28·6	−0·1	7·350	85·25	26 38 26	10 50 5	28·7	7·179	85·25	G. S. J.	939·29	·36876	·36878	-·00002	·36877	
,, ,,	15 15	2·7076	1·26	28·9	,,	6·775	85·25	26 38 38	10 50 10	28·9	6·930	85·25	G. S. J.	939·10	·36860	·36862	-·00002	·36861	
AUG. 4	12 17	2·7059	1·26	27·2	+0·4	7·319	84·90	26 39 21	10 50 23	27·6	7·306	84·90	G. S. J.	939·16	·36872	·36876	-·00004	·36874	
,, ,,	15 12	2·7071	1·27	28·0	,,	6·649	84·90	26 40 0	10 50 36	27·9	6·825	84·90	G. S. J.	939·16	·36854	·36859	-·00005	·36856	
,, 11	12 22	2·7063	1·26	29·0	+0·9	7·597	85·20	26 37 1	10 49 44	29·1	7·357	85·20	G. S. J.	939·20	·36834	·36830	+·00004	·36832	
,, ,,	15 13	2·7081	1·24	29·6	,,	6·521	85·20	26 38 2	10 49 56	29·4	6·804	85·20	G. S. J.	939·03	·36861	·36864	-·00003	·36862	·368737
,, 18	12 5	2·7061	1·26	28·9	+0·8	7·675	85·87	26 37 57	10 50 1	27·8	7·585	85·87	G. S. J.	939·20	·36898	·36896	+·00002	·36897	
,, ,,	14 57	2·7074	1·27	29·1	,,	6·916	85·87	26 37 31	10 49 53	29·1	7·077	85·85	G. S. J.	938·99	·36875	·36872	+·00003	·36873	
,, 25	12 12	2·7062	1·25	27·9	+0·9	7·018	86·60	26 38 34	10 50 9	28·0	7·025	86·60	G. S. J.	939·12	·36880	·36881	-·00001	·36880	
,, ,,	15 14	2·7074	1·28	28·3	,,	6·448	86·60	26 39 29	10 50 27	28·2	6·590	86·60	G. S. J.	939·07	·36855	·36858	-·00003	·36856	

1909. Date.	Civil Time, Mean.	Vibration Magnet. Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Angle of Deflection of Magnet marked 7. Distance. 22·5 cms.	30·0 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Observer.	Calculated Results in C. G. S. Unit. Values of H. Values of m.	From Deflection at distance. 22·5 cms. ($H_{22\cdot5}$).	30·0 cms. ($H_{30\cdot0}$).	Difference. $H_{22\cdot5} - H_{30\cdot0}$.	Mean. $\frac{H_{22\cdot5} + H_{30\cdot0}}{2}$	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	cms.	°	° ′ ″	″	°	cms.								
SEPT. 1	12 27	2·7071	1·25	27·9	+1·9	6·308	87·00	26 40 2	10 50 42	28·1	6·180	87·00	G. S. J.	939·27	0·36852	0·36854	−·00002	0·36853	
,, ,,	15 14	2·7083	1·23	28·2	,,	5·840	87·00	26 40 15	10 50 50	28·3	5·972	87·00	G. S. J.	939·01	·36833	·36833	·00000	·36833	
,, 8	12 43	2·7055	1·28	27·2	+4·4	7·045	86·65	26 39 10	10 50 27	27·5	6·995	86·60	G. S. J.	939·31	·36882	·36882	·00000	·36882	
,, ,,	15 1	2·7067	1·26	27·2	,	6·385	86·60	26 39 47	10 50 36	27·4	6·662	86·60	G. S. J.	939·01	·36860	·36862	−·00002	·36861	
,, 15	12 21	2·7070	1·25	28·9	+0·2	6·935	86·70	26 37 47	10 49 51	28·9	6·797	86·70	G. S. J.	939·05	·36877	·36878	−·00001	·36877	·368425
,, ,,	15 13	2·7081	1·25	28·9	,,	6·033	86·65	26 38 59	10 50 20	29·0	6·276	86·70	G. S. J.	939·05	·36849	·36849	·00000	·36849	
,, 22	12 17	2·7075	1·23	27·9	+0·4	6·334	86·80	26 39 44	10 50 40	28·0	6·170	86·80	G. S. J.	939·01	·36849	·36849	·00000	·36849	
,, ,,	15 14	2·7090	1·26	27·9	,,	5·580	86·80	26 40 38	10 51 2	28·0	5·742	86·80	G. S. J.	938·73	·36820	·36818	+·00002	·36819	
,, 29	12 19	2·7083	1·24	27·8	+0·6	5·392	86·80	26 42 12	10 51 28	27·9	5·211	86·80	G. S. J.	939·31	·36813	·36815	−·00002	·36814	
,, ,,	15 16	2·7092	1·25	27·6	,,	4·581	86·75	26 43 20	10 51 59	27·7	4·755	86·77	G. S. J.	939·25	·36788	·36789	−·00001	·36788	
OCT. 6	12 15	2·7090	1·25	28·9	+0·8	5·577	86·75	26 40 21	10 50 54	28·9	5·475	86·75	G. S. J.	939·07	·36822	·36822	·00000	·36822	
,, ,,	15 16	2·7098	1·28	29·2	,,	5·045	86·75	26 40 15	10 50 51	29·4	5·212	86·75	G. S. J.	938·94	·36810	·36810	·00000	·36810	
,, 13	12 27	2·7089	1·26	30·0	+0·3	5·901	87·05	26 38 32	10 50 11	30·1	5·728	87·05	G. S. J.	939·14	·36843	·36843	·00000	·36843	
,, ,,	15 16	2·7098	1·26	31·0	,,	5·273	87·05	26 38 27	10 50 10	30·9	5·325	87·05	G. S. J.	939·23	·36832	·36832	·00000	·36832	·368299
,, 21	11 26	2·7086	1·26	30·0	+0·6	5·822	87·20	26 38 15	10 50 3	29·9	5·858	87·20	G. S. J.	939·12	·36852	·36852	·00000	·36852	
,, ,,	15 12	2·7103	1·27	30·3	,,	5·055	87·25	26 38 59	10 50 20	30·4	5·230	87·22	G. S. J.	938·90	·36818	·36819	−·00001	·36818	
,, 27	12 29	2·7083	1·23	29·1	+0·8	5·551	87·20	26 39 20	10 50 32	29·3	5·476	87·20	G. S. J.	939·18	·36841	·36840	+·00001	·36840	
,, ,,	15 13	2·7098	1·26	29·8	,,	5·086	87·20	26 39 32	10 50 30	29·7	5·280	87·20	G. S. J.	938·94	·36821	·36823	−·00002	·36822	
NOV. 3	12 31	2·7078	1·25	29·6	+0·7	6·205	87·40	26 37 54	10 49 55	29·7	6·022	87·40	G. S. J.	939·16	·36864	·36865	−·00001	·36864	
,, ,,	15 15	2·7031	1·27	30·1	,,	5·522	87·40	26 38 27	10 50 3	30·1	5·661	87·40	G. S. J.	939·03	·36842	·36845	−·00003	·36843	
,, 10	13 35	2·7086	1·27	30·0	+0·7	5·840	87·10	26 37 55	10 50 2	30·1	5·685	87·12	G. S. J.	939·10	·36853	·36851	+·00002	·36852	
,, ,,	14 55	2·7091	1·28	30·3	,,	5·538	87·15	26 37 48	10 49 55	30·2	5·581	87·15	G. S. J.	938·94	·36849	·36849	·00000	·36849	·368492
,, 18	12 31	2·7071	1·35	27·9	+1·0	5·993	86·55	26 38 50	10 50 18	28·2	5·857	86·55	G. S. J.	938·97	·36863	·36863	·00000	·36863	
,, ,,	14 30	2·7080	1·37	28·8	,,	5·391	86·50	26 39 1	10 50 27	28·6	5·580	86·52	G. S. J.	939·01	·36853	·36850	+·00003	·36851	
,, 24	12 19	2·7075	1·35	27·7	+1·1	5·666	85·95	26 40 23	10 50 52	27·8	5·526	85·95	G. S. J.	939·10	·36843	·36843	·00000	·36843	
,, ,,	15 15	2·7082	1·36	28·1	,,	5·138	85·95	26 40 59	10 51 5	28·0	5·161	85·95	G. S. J.	939·14	·36829	·36830	−·00001	·36829	
DEC. 1	12 22	2·7088	1·36	28·4	+1·5	4·957	85·30	26 41 30	10 51 19	28·7	4·632	85·35	G. S. J.	939·31	·36810	·36810	·00000	·36810	
,, ,,	15 13	2·7106	1·35	28·9	,,	3·930	85·40	26 42 24	10 51 39	28·9	3·985	85·40	G. S. J.	939·10	·36779	·36780	·00001	·36779	
,, 8	12 28	2·7063	1·32	26·7	+1·4	5·605	84·90	26 41 15	10 51 15	26·4	5·515	84·90	G. S. J.	939·23	·36854	·36854	·00000	·36854	
,, ,,	15 13	2·7062	1·34	26·7	,,	5·520	84·90	26 41 9	10 51 14	26·8	5·482	84·90	G. S. J.	939·33	·36853	·36852	+·00001	·36852	
,, 15	12 16	2·7060	1·35	25·5	+1·2	5·450	84·35	26 42 52	10 51 50	25·5	5·312	84·35	G. S. J.	939·29	·36838	·36838	·00000	·36838	
,, ,,	14 47	2·7069	1·36	25·8	,,	5·010	84·30	26 43 11	10 51 56	25·8	5·017	84·30	G. S. J.	939·18	·36824	·36825	−·00001	·36824	·368350
,, 22	12 33	2·7073	1·33	26·9	+1·2	5·287	84·00	26 41 37	10 51 21	27·0	5·130	84·00	G. S. J.	939·14	·36832	·36833	−·00001	·36832	
,, ,,	15 14	2·7079	1·36	27·6	,,	5·052	84·00	26 41 49	10 51 26	27·5	5·002	84·00	G. S. J.	939·27	·36825	·36825	·00000	·36825	
,, 30	12 28	2·7055	1·36	27·3	+0·6	6·250	83·65	26 39 2	10 50 26	27·6	6·125	83·65	G. S. J.	939·27	·36882	·36880	+·00002	·36881	
,, ,,	15 15	2·7074	1·34	28·3	,,	5·647	83·70	26 39 28	10 50 35	28·0	5·757	83·70	G. S. J.	939·05	·36857	·36856	+·00001	·36856	

The mean* observed value of the Horizontal Force for the year 1909 = 0·368594

† New open scale thermometer was introduced into the enclosure from 2nd February 1909.
* The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table Ib.

Observations of Vibration and Deflection taken with the Magnetometer No. 3 (Cambridge Scientific Instrument Co.) for the determination of Absolute Horizontal Force.

1909.

1909. Date.	Vibration Magnet. Civil Time, Mean.	Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Angle of Deflection. Distance. 23 cms.	30 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Observer	Calculated Results in C. G. S. Unit. Values of H. Values of m.	From Deflection at distance. 23 cms. (H_{23}).	30 cms. (H_{30}).	Difference. $H_{23} - H_{30}$.	Mean. $\frac{H_{23}+H_{30}}{2}$	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	mm.	°	° ′ ″	° ′ ″	°	mm.	°							
JAN. 4	12 29	2·8694	1·49	26·1	+1·6	72·8	85·0	23 55 1	10 32 14	25·5	70·1	85·0	G. S. J.	917·87	0·36804	0·36807	·00003	0·36805	
„ „	15 13	2·8707	1·71	26·3	„	69·5	85·0	23 54 50	10 32 21	26·1	66·3	85·0	G. S. J.	917·59	·36785	·36782	+·00003	·36783	
„ 11	12 34	2·8668	1·58	24·7	+1·5	84·8	85·0	23 53 10	10 31 30	24·2	84·7	85·0	G. S. J.	917·55	·36859	·36860	−·00001	·36859	
„ „	14 58	2·8664	1·54	24·0	„	83·2	85·0	23 53 1	10 31 47	24·1	83·5	85·0	G. S. J.	917·59	·36861	·36853	+·00008	·36857	·368407
„ 18	12 47	2·8660	1·69	24·0	+1·5	84·9	84·5	23 53 42	10 31 42	24·2	82·0	84·5	G. S. J.	917·80	·36856	·36858	−·00002	·36857	
„ „	14 27	2·8674	1·45	24·5	„	80·4	84·5	23 53 44	10 31 41	24·4	81·0	84·5	G. S. J.	917·53	·36842	·36844	−·00002	·36843	
„ 25	12 24	2·8667	1·55	25·6	+1·7	85·4	84·3	23 52 21	10 31 17	25·1	85·2	84·3	G. S. J.	917·80	·36871	·36868	+·00003	·36869	
„ „	15 13	2·8673	1·46	25·3	„	82·9	84·3	23 52 50	10 31 30	25·1	82·9	84·3	G. S. J.	917·68	·36855	·36852	+·00003	·36853	
FEB. 1	12 24	2·8668	1·72	23·7	+1·6	78·7	83·4	23 54 41	10 32 16	23·6	78·2	83·4	G. S. J.	917·70	·36837	·36834	+·00003	·36835	
„ „	15 16	2·8676	1·62	23·7	„	74·8	83·4	23 55 41	10 32 32	23·5	75·9	83·4	G. S. J.	917·68	·36816	·36818	−·00002	·36817	
„ 8	12 17	2·8670	1·53	24·7	+2·1	81·7	82·75	23 53 15	10 31 32	24·8	80·4	82·77	G. S. J.	917·66	·36851	·36852	−·00001	·36851	
„ „	15 12	2·8682	1·41	25·1	„	76·0	82·80	23 53 35	10 31 45	25·0	77·2	82·80	G. S. J.	917·55	·36833	·36832	+·00001	·36832	
„ 15	12 35	2·8673	1·50	26·2	+1·8	84·7	82·80	23 51 16	10 30 47	26·3	84·8	82·80	G. S. J.	917·66	·36871	·36869	+·00002	·36870	·368467
„ „	15 16	2·8674	1·71	26·0	„	83·9	82·80	23 51 11	10 30 55	26·2	85·3	82·80	G. S. J.	917·55	·36867	·36861	+·00006	·36864	
„ 22	12 23	2·8669	1·45	26·1	+0·6	87·3	83·05	23 51 59	10 31 4	25·4	86·0	83·05	G. S. J.	917·76	·36874	·36873	+·00001	·36873	
„ „	15 18	2·8690	1·46	25·8	„	75·0	83·10	23 52 57	10 31 28	25·4	79·3	83·10	G. S. J.	917·32	·36832	·36832	·00000	·36832	
MAR. 1	12 23	2·8677	1·63	27·2	+0·7	85·3	83·30	23 50 17	10 30 34	27·2	84·7	83·30	G. S. J.	917·68	·36877	·36870	+·00007	·36873	
„ „	15 15	2·8689	1·56	28·0	„	80·1	83·40	23 50 43	10 30 14	27·7	81·9	83·40	G. S. J.	917·51	·36858	·36865	−·00007	·36861	
„ 8	12 34	2·8671	1·48	26·8	+1·8	88·3	83·97	23 49 16	10 30 2	26·9	86·5	84·00	G. S. J.	917·40	·36897	·36894	+·00003	·36895	
„ „	14 57	2·8692	1·46	27·5	„	78·4	84·00	23 49 21	10 30 16	27·3	81·7	84·00	G. S. J.	917·06	·36871	·36862	+·00009	·36866	
„ 15	12 29	2·8681	1·61	27·9	+2·1	85·1	84·50	23 49 47	10 30 7	27·7	83·8	84·50	G. S. J.	917·59	·36880	·36880	·00000	·36880	
„ „	15 13	2·8692	1·52	28·0	„	79·4	84·50	23 49 47	10 30 18	28·0	80·9	84·50	G. S. J.	917·40	·36865	·36859	+·00006	·36862	·368522
„ 22	12 36	2·8694	1·56	27·7	+2·1	76·4	85·15	23 51 56	10 31 7	26·8	75·6	85·15	G. S. J.	917·61	·36843	·36841	+·00002	·36842	
„ „	15 11	2·8699	1·50	27·4	„	70·8	85·15	23 52 22	10 31 10	27·0	71·1	85·15	G. S. J.	917·53	·36827	·36828	−·00001	·36827	
„ 29	12 32	2·8716	1·54	29·6	+1·2	66·4	85·60	23 50 57	10 30 41	29·6	67·2	85·60	G. S. J.	917·66	·36819	·36816	+·00003	·36817	
„ „	15 16	2·8726	1·43	29·7	„	64·0	85·65	23 51 25	10 31 1	29·5	63·5	85·62	G. S. J.	917·53	·36802	·36796	+·00006	·36799	

1909. Date.	Civil Time, Mean.	Vibration Magnet. Time of one Vibration.	Vibration Magnet. Effect of 90° Torsion.	Vibration Magnet. Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Corresponding Mean Reading of H. F. Magnetograph. Thermometer.	Angle of Deflection. Distance. 23 cms.	Angle of Deflection. Distance. 30 cms.	Angle of Deflection. Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Corresponding Mean Reading of H. F. Magnetograph. Thermometer.	Observer.	Calculated Results in C. G. S. Unit. Values of m.	Values of H. From Deflection at distance. 23 cms (H_{23}).	Values of H. From Deflection at distance. 30 cms (H_{30}).	Values of H. Difference. $H_{23} - H_{30}$.	Values of H. Mean. $\frac{H_{23} + H_{30}}{2}$.	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div	°	S.	mm.	°	′ ″	° ′ ″	°	mm.	°							
April 5	12 26	2·8680	1·55	28·8	+ 1·6	85·2	86·20	23 48 32	10 29 43	28·5	83·2	86·15	G. S. J.	917·66	0·36897	0·36893	+ ·00004	0·36895	
,, ,,	15 13	2·8695	1·76	28·4	,,	75·2	86·15	23 49 50	10 30 7	27·8	78·7	86·15	G. S. J.	917·23	·36862	·36864	− ·00002	·36863	
,, 12	12 31	2·8679	1·65	28·5	+ 1·1	81·7	86·60	23 49 14	10 30 8	27·7	82·0	86·60	G. S. J.	917·70	·36894	·36887	+ ·00007	·36890	
,, ,,	15 15	2·8691	1·55	27·9	,,	75·4	86·60	23 50 1	10 30 20	27·6	77·1	86·60	G. S. J.	917·36	·36865	·36861	+ ·00004	·36863	
,, 19	12 39	2·8695	1·51	30·0	+ 1·1	79·7	86·80	23 49 19	10 30 0	28·9	78·5	86·80	G. S. J.	917·76	·36875	·36872	+ ·00003	·36873	·368612
,, ,,	15 17	2·8699	1·55	29·2	,,	74·5	86·80	23 49 16	10 30 0	28·9	75·5	86·80	G. S. J.	917·42	·36863	·36860	+ ·00003	·36861	
,, 26	12 34	2·8712	1·74	30·4	+ 1·0	70·0	87·05	23 49 56	10 30 14	29·9	67·6	87·05	G. S. J.	917·66	·36838	·36837	+ ·00001	·36837	
,, ,,	15 18	2·8722	1·43	29·6	,,	63·6	87·00	23 51 2	10 30 39	29·9	62.1	87·00	G. S. J.	917·55	·36808	·36808	·00000	·36808	
May 3	12 48	2·8692	1·45	30·8	+ 1·1	82·9	87·50	23 46 32	10 28 48	30·7	81·2	87·50	G. S. J.	917·59	·36904	·36903	+ ·00001	·36903	
,, ,,	15 1	2·8706	1·58	30·8	,,	75·2	87·50	23 46 50	10 28 56	30·9	77·6	87·50	G. S. J.	917·25	·36880	·36878	+ ·00002	·36879	
,, 10	12 39	2·8687	1·47	30·3	+ 1·4	81·8	88·00	23 47 20	10 29 6	29·2	81·3	88·00	G. S. J.	917·51	·36909	·36909	·00000	·36909	
,, ,,	15 13	2·8693	1·50	29·5	,,	76·2	88·05	23 48 2	10 29 27	29·3	78·0	88·05	G. S. J.	917·40	·36885	·36883	+ ·00002	·36884	
,, 17	12 40	2·8712	1·41	29·7	+ 0·9	66·5	88·65	23 50 6	10 30 25	29·5	63·8	88·65	G. S. J.	917·55	·36836	·36831	+ ·00005	·36833	
,, ,,	15 16	2·8719	1·61	29·9	,,	61·7	88·65	23 50 27	10 30 22	29·7	62·6	88·65	G. S. J.	917·40	·36821	·36822	− ·00001	·36821	·368731
,, 24	12 39	2·8698	1·57	30·6	+ 0·9	74·9	89·40	23 48 6	10 29 31	29·7	73·4	89·40	G. S. J.	917·59	·36882	·36880	+ ·00002	·36881	
,, ,,	15 16	2·8709	1·40	30·0	,,	66·9	89·40	23 48 42	10 29 46	29·8	69·2	89·40	G. S. J.	917·32	·36856	·36854	+ ·00002	·36855	
,, 31	12 43	2·8706	1·58	31·5	+ 1·0	76·1	90·00	23 46 46	10 28 54	30·8	75·2	90·00	G. S. J.	917·36	·36887	·36886	+ ·00001	·36886	
,, ,,	15 17	2·8709	1·41	30·9	,,	72·1	90·00	23 46 27	10 28 51	30·9	73·8	90·00	G. S. J.	917·11	·36882	·36878	+ ·00004	·36880	
June 7	12 35	2·8684	1·59	29·7	+ 1·1	78·3	90·35	23 46 52	10 28 54	29·5	76·4	90·35	G. S. J.	917·40	·36910	·36911	− ·00001	·36910	
,, ,,	15 14	2·8704	1·42	30·3	,,	69·4	90·35	23 47 0	10 29 1	30·4	73·1	90·35	G. S. J.	917·17	·36881	·36879	+ ·00002	·36880	
,, 14	12 53	2·8694	1·41	30·6	+ 0·7	73·4	89·80	23 47 32	10 29 22	29·2	73·9	89·80	G. S. J.	917·28	·36892	·36887	+ ·00005	·36889	
,, ,,	15 15	2·8702	1·44	29·7	,,	70·4	89·75	23 48 6	10 29 30	29·4	71·8	89·80	G. S. J.	917·21	·36873	·36871	+ ·00002	·36872	·368985
,, 21	13 2	2·8675	1·37	30·1	+ 0·6	87·7	89·20	23 45 37	10 28 31	29·8	84·3	89·20	G. S. J.	917·53	·36939	·36934	+ ·00005	·36936	
,, ,,	15 19	2·8692	1·43	29·8	,,	75·5	89·20	23 46 42	10 28 46	29·6	79·3	89·20	G. S. J.	917·11	·36902	·36904	− ·00002	·36903	
,, 28	12 40	2·8662	1·57	27·5	+ 0·7	80·3	88·40	23 48 11	10 29 42	27·4	78·7	88·40	G. S. J.	917·61	·36922	·36914	+ ·00008	·36918	
,, ,,	15 16	2·8683	1·62	27·6	,,	69·2	88·40	23 49 20	10 30 2	27·4	72·4	88·40	G. S. J.	917·28	·36882	·36879	+ ·00003	·36880	
July 5	12 18	2·8685	1·65	28·2	·8	74·8	87·25	23 48 33	10 29 55	28·0	74·0	87·25	G. S. J.	917·34	·36889	·36880	+ ·00009	·36884	
,, ,,	15 14	2·8696	1·54	28·2	,,	69·1	87·25	23 49 13	10 29 56	28·0	71·3	87·25	G. S. J.	917·11	·36868	·36866	+ ·00002	·36867	
,, 12	12 56	2·8682	1·30	27·6	0·0	74·7	86·30	23 49 51	10 30 13	27·5	70·8	86·30	G. S. J.	917·51	·36877	·36876	− ·00001	·36876	
,, ,,	15 15	2·8691	1·31	27·7	,,	69·1	86·25	23 50 2	10 30 15	27·4	69·8	86·25	G. S. J.	917·25	·36865	·36865	·00000	·36865	
,, 19	12 18	2·8679	1·27	27·5	0·2	78·6	85·50	23 48 22	10 29 33	27·4	78·4	85·45	G. S. J.	917·11	·36899	·36899	·00000	·36899	·368754
,, ,,	14 53	2·8689	1·34	27·5	,,	73·8	85·45	23 48 58	10 29 51	27·6	75·2	85·45	G. S. J.	917·02	·36877	·36875	+ ·00002	·36876	
,, 26	12 28	2·8687	1·31	28·3	− 0·1	73·9	85·25	23 49 43	10 30 1	27·6	71·0	85·25	G. S. J.	917·42	·36878	·36880	− ·00002	·36879	
,, ,,	15 16	2·8694	1·24	27·0	,,	69·8	85·20	23 50 17	10 30 25	27·4	68·3	85·22	G. S. J.	917·25	·36858	·36856	+ ·00002	·36857	

Aug.	2	12	19	2·8675	1·23	26·3	− 0·4	72·9	84·90	23	50	22	10	30	29	25·9	73·8	84·85	G. S. J.	917·30	·36884	·36881	+ ·00003	·36882	
"	"	15	17	2·8685	1·22	26·0	"	68·7	84·77	23	50	49	10	30	35	25·8	71·2	84·80	G. S. J.	917·00	·36865	·36864	+ ·00001	·36864	
"	9	12	55	2·8700	1·29	28·3	1·2	65·2	85·10	23	50	27	10	30	26	28·2	63·9	85·10	G. S. J.	917·44	·36848	·36847	+ ·00001	·36847	
"	"	15	15	2·8710	1·27	28·6	"	63·1	85·10	23	49	53	10	30	21	28·3	64·3	85·10	G. S. J.	917·11	·36844	·36839	+ ·00005	·36841	
"	16	12	14	2·8692	1·27	29·1	+ 1·1	73·3	85·65	23	48	40	10	29	34	28·4	72·3	85·65	G. S. J.	917·34	·36885	·36888	− ·00003	·36886	·368576
"	"	15	20	2·8699	1·35	28·7	"	66·9	85·70	23	48	44	10	29	52	28·6	69·0	85·70	G. S. J.	917·17	·36869	·36864	+ ·00005	·36866	
"	23	12	21	2·8681	1·34	27·5	+ 0·8	70·7	86·40	23	49	40	10	30	16	27·0	70·2	86·40	G. S. J.	917·40	·36885	·36879	+ ·00006	·36882	
"	"	15	13	2·8697	1·35	27·7	"	62·7	86·40	23	50	21	10	30	16	27·3	65·7	86·40	G. S. J.	917·09	·36854	·36858	− ·00004	·36856	
"	30	12	15	2·8708	1·37	28·3	+ 1·5	60·3	86·90	23	50	31	10	30	31	27·5	62·1	86·90	G. S. J.	917·06	·36843	·36840	+ ·00003	·36841	
"	"	15	14	2·8711	1·41	27·0	"	53·6	86·85	23	52	38	10	31	23	26·4	57·1	86·85	G. S. J.	917·06	·36812	·36810	+ ·00002	·36811	
Sept.	6	13	2	2·8686	1·19	26·8	+ 4·1	67·1	86·95	23	50	18	10	30	19	26·8	67·1	86·90	G. S. J.	917·23	·36869	·36870	− ·00001	·36869	
"	"	14	59	2·8696	1·21	26·8	"	62·2	86·90	23	50	40	10	30	32	26·6	65·5	86·90	G. S. J.	917·00	·36853	·36852	+ ·00001	·36852	
"	13	12	24	2·8688	1·22	28·1	− 0·1	71·9	86·70	23	48	11	10	29	28	27·9	71·0	86·70	G. S. J.	917·00	·36891	·36891	·00000	·36891	
"	"	15	14	2·8696	1·26	28·2	"	65·5	86·65	23	48	30	10	29	51	28·2	67·7	86·70	G. S. J.	917·02	·36874	·36867	− ·00007	·36870	
"	20	12	20	2·8674	1·23	27·9	+ 0·5	75·4	86·70	23	48	20	10	29	37	27·1	74·6	86·70	G. S. J.	917·30	·36913	·36910	+ ·00003	·36911	·368482
"	"	15	21	2·8686	1·21	27·5	"	67·1	86·70	23	48	45	10	29	47	27·4	69·6	86·70	G. S. J.	917·04	·36886	·36883	+ ·00003	·36884	
"	27	11	59	2·8724	1·24	26·6	+ 0·6	41·4	86·80	23	54	51	10	32	21	26·2	40·8	86·80	G. S. J.	917·23	·36767	·36765	+ ·00002	·36706	
"	"	15	15	2·8736	1·21	26·8	"	35·1	86·75	23	55	12	10	32	33	26·6	36·3	86·80	G. S. J.	917·09	·36745	·36741	+ ·00004	·36743	
Oct.	4	12	11	2·8711	1·20	28·5	+ 0·7	54·5	86·80	23	51	14	10	30	52	28·1	54·0	86·80	G. S. J.	917·36	·36826	·36822	+ ·00004	·368?4	
"	"	15	21	2·8723	1·26	28·3	"	50·6	86·72	23	51	41	10	30	59	28·1	52·1	86·75	G. S. J.	917·04	·36804	·36802	+ ·00002	·36803	
"	11	12	28	2·8707	1·24	28·6	+ 0·2	58·6	86·90	23	50	21	10	30	27	28·3	56·3	86·90	G. S. J.	917·28	·36841	·36838	+ ·00003	·36839	
"	"	15	15	2·8720	1·20	28·7	"	50·3	86·85	23	50	37	10	30	40	28·6	53·1	86·85	G. S. J.	917·09	·36820	·36815	+ ·00005	·36817	·368217
"	18	12	24	2·8707	1·24	30·4	+ 0·6	63·0	87·30	23	49	0	10	29	55	29·0	57·6	87·30	G. S. J.	917·55	·36861	·36857	+ ·00004	·36859	
"	"	15	13	2·8730	1·26	30·4	"	50·2	87·25	23	49	36	10	30	7	30·1	52·8	87·25	G. S. J.	917·09	·36820	·36818	+ ·00002	·36819	
"	25	12	10	2·8719	1·33	29·2	+ 0·8	48·6	87·20	23	52	3	10	31	7	28·5	47·2	87·20	G. S. J.	917·55	·36808	·36807	+ ·00001	·36807	
"	"	15	13	2·8722	1·36	29·0	"	47·3	87·20	23	51	35	10	30	45	29·0	46·7	87·20	G. S. J.	917·32	·36804	·36808	− ·00004	·36806	
Nov.	1	12	38	2·8704	1·32	30·0	+ 0·7	60·8	87·40	23	49	17	10	29	57	29·1	58·1	87·40	G. S. J.	917·51	·36802	·36861	+ ·00001	·36861	
"	"	15	16	2·8717	1·34	29·8	"	53·1	87·40	23	49	25	10	30	7	29·6	54·5	87·40	G. S. J.	917·23	·36837	·36833	+ ·00004	·36835	
"	8	13	7	2·8705	1·10	29·8	+ 0·8	60·6	87·15	23	49	5	10	29	51	29·6	57·6	87·15	G. S. J.	917·51	·36859	·36858	+ ·00001	·36858	
"	"	14	58	2·8721	1·11	29·8	"	54·7	87·15	23	49	5	10	30	4	29·6	56·3	87·15	G. S. J.	917·06	·36838	·36832	+ ·00006	·36835	
"	15	12	10	2·8705	1·16	28·4	+ 0·9	55·7	86·70	23	49	50	10	30	16	28·8	55·5	86·70	G. S. J.	917·19	·36838	·36837	+ ·00001	·36837	
"	"	14	36	2·8718	1·71	28·9	"	48·5	86·70	23	50	32	10	30	29	28·9	50·9	86·70	G. S. J.	917·11	·36819	·36818	+ ·00001	·36818	·368419
"	22	12	31	2·8700	1·89	28·0	+ 1·1	54·2	86·25	23	50	22	10	30	30	28·1	52·5	86·30	G. S. J.	917·25	·36843	·36840	+ ·00003	·36841	
"	"	15	13	2·8709	1·95	28·1	"	51·5	86·30	23	51	17	10	30	24	28·3	51·0	86·30	G. S. J.	917·19	·36819	·36825	− ·00006	·36822	
"	29	12	16	2·8687	2·04	28·5	+ 1·4	60·8	85·55	23	48	16	10	29	31	29·9	58·1	85·55	G. S. J.	917·49	·36871	·36871	·00000	·36871	
"	"	15	15	2·8710	2·01	29·3	"	55·0	85·57	23	48	51	10	29	46	30·1	55·6	85·55	G. S. J.	917·15	·36841	·36841	·00000	·36841	
Dec.	6	12	36	2·8696	2·09	27·8	+ 1·4	58·6	85·00	23	50	44	10	30	35	27·1	56·7	85·02	G. S. J.	917·17	·36850	·36849	+ ·00001	·36849	
"	"	15	16	2·8707	2·17	27·6	"	49·9	85·05	23	51	27	10	30	37	27·5	53·2	85·05	G. S. J.	916·98	·36821	·36827	− ·00006	·36824	
"	13	12	12	2·8668	2·14	26·0	+ 1·4	64·3	84·60	23	50	56	10	30	30	25·7	62·5	84·60	G. S. J.	917·38	·36880	·36882	− ·00002	·36881	
"	"	15	12	2·8678	1·94	25·8	"	58·0	84·65	23	51	23	10	30	48	25·8	58·2	84·65	G. S. J.	917·23	·36860	·36860	·00000	·36860	
"	20	12	27	2·8680	2·04	26·3	+ 1·2	58·4	84·00	23	51	35	10	30	47	26·0	57·3	84·00	G. S. J.	917·34	·36857	·36860	− ·00003	·36858	·368550
"	"	15	15	2·8688	2·20	26·4	"	54·5	84·00	23	51	42	10	30	52	26·2	55·6	84·00	G. S. J.	917·17	·36843	·36845	− ·00002	·36844	
"	28	12	40	2·8676	2·06	26·6	+ 0·7	61·1	83·60	23	50	5	10	30	11	26·9	60·7	83·60	G. S. J.	917·28	·36874	·36877	− ·00003	·36875	
"	"	15	16	2·8693	2·29	27·3	"	56·9	83·65	23	50	17	10	30	20	27·4	58·5	83·62	G. S. J.	917·00	·36849	·36849	·00000	·36849	

The mean observed value of the Horizontal Force for the year 1909 = 0·368560

† New open scale thermometer was introduced into the enclosure from 2nd February 1909.

Absolute Magnetical Observations, Alibag—Table IIa.

OBSERVATIONS OF ABSOLUTE DECLINATION, 1909.

Taken with Magnetometer No 7 (T. Cooke and Sons).

1909. Date.		Alibag Civil Time.	Mean Readings. Collimator Magnet. Scale apparently Erect.	Collimator Magnet. Scale apparently Inverted.	Horizontal Circle with Telescope pointed to. Scale of Collimator Magnet.	Kennery Light-house.	Torsion. Mean.	Effect of 90°.	Observer.	Corresponding ordinate of Declination Magnetograms.	Absolute Easterly Declination corrected for Torsion.	Monthly Mean. Corresponding ordinate of Declination Magnetograms.	Observed absolute Easterly Declination.
1		2	3	4	5	6	7	8	9	10	11	12	13
		H. m.	Sc. div.	Sc. div.	° ′ ″	° ′ ″	°	Sc. div.		cms.	° ′ ″	cms	° ′ ″
JAN.	7	11 49	55·6	...	85 30 40	222 23 0	0	...	G. S. J.	6·255	1 1 5		
,,	14	12 12	55·6	...	85 28 50	222 22 55	0	...	G. S. J.	6·095	0 59 20		
,,	21	11 37	55·6	...	85 31 45	222 23 10	0	...	G. S. J.	6·385	1 2 0	6·237	1 0 47
,,	28	12 6	55·6	...	85 30 20	222 23 0	0	...	G. S. J.	6·215	1 0 45		
FEB.	4	11 47	55·6	...	85 29 20	222 23 0	0	...	G. S. J.	6·170	0 59 45		
,,	11	11 45	55·6	...	85 31 20	222 23 15	0	...	G. S. J.	6·345	1 1 30		
,,	18	11 44	55·6	...	85 29 40	222 23 10	0	...	G. S. J.	6·165	0 59 55	6·180	0 59 59
,,	25	11 53	55·6	...	85 28 40	222 23 20	0	...	G. S. J.	6·040	0 58 45		
MARCH	4	11 38	55·6	...	85 29 35	222 23 30	0	...	G. S. J.	6·115	0 59 30		
,,	11	11 54	55·6	...	85 31 55	222 23 35	0	...	G. S. J.	6·330	1 1 45		
,,	18	11 50	55·6	...	85 30 25	222 23 30	0	...	G. S. J.	6·180	1 0 20	6·209	1 0 31
,,	25	11 59	55·6	...	85 30 35	222 23 30	0	...	G. S. J.	6·210	1 0 30		
APRIL	2	11 40	55·6	...	85 30 45	222 23 25	0	...	G. S. J.	6·237	1 0 45		
,,	8	11 43	55·6	...	85 29 35	222 23 25	0	...	G. S. J.	6·087	0 59 35		
,,	15	11 52	55·6	...	85 29 40	222 23 30	0	...	G. S. J.	6·107	0 59 35	6·091	0 59 26
,,	22	11 56	55·6	...	85 28 50	222 23 40	0	...	G. S. J.	6·000	0 58 35		
,,	29	11 56	55·6	...	85 29 0	222 23 45	0	...	G. S. J.	6·025	0 58 40		
MAY	6	11 42	55·6	...	85 29 20	222 23 45	0	...	G. S. J.	6·077	0 59 0		
,,	13	11 44	55·6	...	85 28 40	222 24 0	0	...	G. S. J.	6·000	0 58 5		
,,	20	11 52	55·6	...	85 28 50	222 24 10	0	...	G. S. J.	6·000	0 58 5	6·055	0 58 30
,,	27	11 45	55·6	...	85 30 0	222 24 0	0	...	G. S. J.	6·145	0 59 25		
JUNE	3	11 48	55·6	...	85 27 40	222 23 55	0	...	G. S. J.	5·927	0 57 10		
,,	10	11 40	55·6	...	85 30 30	222 23 55	0	...	G. S. J.	6·215	1 0 0	6·001	0 57 56
,,	17	11 45	55·6	...	85 28 5	222 24 0	0	...	G. S. J.	5·947	0 57 30		
,,	24	11 28	55·6	...	85 27 30	222 23 50	0	...	G. S. J.	5·915	0 57 5		
JULY	1	11 31	55·6	...	85 29 40	222 23 40	0	...	G. S. J.	6·130	0 59 25		
,,	8	11 47	55·6	...	85 27 45	*131 22 50	0	...	G. S. J.	5·935	0 57 18		
,,	15	11 42	55·6	...	85 28 25	222 23 40	0	...	G. S. J.	6·015	0 58 10	6·050	0 58 36
,,	22	11 37	55·6	...	85 28 55	222 23 40	0	...	G. S. J.	6·052	0 58 40		
,,	29	11 35	55·6	...	85 29 55	222 23 55	0	...	G. S. J.	6·120	0 59 25		
AUG.	5	11 30	55·6	...	85 28 25	222 23 50	0	...	G. S. J.	5·980	0 58 0		
,,	12	11 37	55·6	...	85 27 50	222 24 0	0	...	G. S. J.	5·885	0 57 15		
,,	19	11 47	55·6	...	85 28 40	222 24 5	0	...	G. S. J.	5·985	0 58 0	5·966	0 57 52
,,	26	11 32	55·6	...	85 29 0	222 24 10	0	...	G. S. J.	6·015	0 58 15		
SEPT.	2	11 46	55·6	...	85 27 35	222 24 10	0	...	G. S. J.	5·860	0 56 50		
,,	9	11 57	55·6	...	85 27 10	222 24 5	0	...	G. S. J.	5·825	0 56 30		
,,	16	12 1	55·6	...	85 27 15	222 24 5	0	...	G. S. J.	5·845	0 56 35	5·874	0 56 57
,,	23	11 49	55·6	...	85 29 0	222 24 10	0	...	G. S. J.	6·000	0 58 15		
,,	30	11 47	55·6	...	85 27 20	222 24 10	0	...	G. S. J.	5·840	0 56 35		
OCT.	7	11 42	55·6	...	85 29 25	222 24 10	0	...	G. S. J.	6·035	0 58 40		
,,	14	11 43	55·6	...	85 29 50	222 24 10	0	...	G. S. J.	6·080	0 59 5	6·070	0 58 56
,,	22	11 37	55·6	...	85 29 50	222 24 5	0	...	G. S. J.	6·075	0 59 10		
,,	28	11 42	55·6	...	85 29 40	222 24 15	0	...	G. S. J.	6·090	0 58 50		
NOV.	4	11 50	55·6	...	85 29 40	222 24 5	0	...	G. S. J.	6·050	0 59 0		
,,	11	11 59	55·6	...	85 29 40	222 23 55	0	...	G. S. J.	6·025	0 59 10	6·085	0 59 24
,,	19	11 52	55·6	...	85 29 35	222 23 5	0	...	G. S. J.	6·140	0 59 55		
,,	25	11 48	55·6	...	85 29 25	222 23 20	0	...	G. S. J.	6·125	0 59 30		
DEC.	2	12 3	55·6	...	85 28 40	222 23 20	0	...	G. S. J.	6·025	0 58 45		
,,	9	11 51	55·6	...	85 29 20	222 23 10	0	...	G. S. J.	6·125	0 59 35		
,,	16	11 43	55·6	...	85 27 40	222 23 0	0	...	G. S. J.	5·975	0 58 5	6·065	0 58 57
,,	23	11 46	55·6	...	85 29 25	222 23 0	0	...	G. S. J.	6·170	0 59 50		
,,	31	12 0	55·6	...	85 28 20	222 23 15	0	...	G. S. J.	6·030	0 58 30		

The mean† observed Declination for the year 1909 = ° ′ ″ 0 59 0

* As the Kennery Light-house was not visible the known azimuth of a fixed mark in the niche of the wall has been made use of.

† The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table IIb.

OBSERVATIONS OF ABSOLUTE DECLINATION, 1909.

Taken with Magnetometer No. 3 (Cambridge Scientific Instrument Co.).

1909. Date.	Alibag Civil Time.	Mean Readings. Collimator Magnet. Scale apparently Erect.	Collimator Magnet. Scale apparently Inverted.	Horizontal Circle with Telescope pointed to: Scale of Collimator Magnet.	Kennery Light-house.	Torsion. Mean.	Effect of 90°.	Observer.	Corresponding Reading of Declination Magnetograph.	Absolute Easterly Declination corrected for Torsion.	Monthly Mean. Corresponding Reading of Declination Magnetograph.	Observed absolute Easterly Declination.
1	2	3	4	5	6	7	8	9	10	11	12	13
	H. m.	Sc. div.	Sc. div.	° ′ ″	′ ″		Sc. div.		mm.	′ ″	mm.	° ′ ″
JAN. 7	12 33	34·05	33·92	270 30 30	53 23 25	0	...	G. S. J.	62·80	1 0 37		
,, 14	12 48	33·97	34·10	276 28 55	53 23 10	0	...	G. S. J.	60·90	0 59 3	62·27	1 0 14
,, 21	12 17	34·07	34·05	276 31 5	53 23 0	0	...	G. S. J.	63·60	1 1 31		
,, 28	12 38	34·02	34·10	276 28 30	53 22 5	0	...	G. S. J.	61·80	0 59 45		
FEB. 4	12 28	34·00	34·02	276 29 30	53 22 55	0	...	G. S. J.	62·15	0 59 59		
,, 11	12 27	34·05	33·90	276 30 15	53 22 25	0	...	G. S. J.	63·15	1 1 23		
,, 18	12 33	34·00	34·05	276 30 30	53 23 10	15 E	0·64	G. S. J.	62·05	1 0 31	61·97	1 0 5
,, 25	12 31	34·02	34·12	276 28 35	53 23 25	0	...	G. S. J.	60·55	0 58 29		
MARCH 4	12 22	34·00	34·47	276 29 20	53 23 10	0	...	G. S. J.	61·85	0 59 9		
,, 11	12 39	34·00	34·40	276 30 45	53 23 10	0	...	G. S. J.	62·75	1 0 49		
,, 18	12 29	34·12	34·17	276 28 55	53 23 15	0	...	G. S. J.	61·60	0 59 3	62·00	0 59 41
,, 25	12 39	34·00	34·55	276 30 15	53 23 25	0	...	G. S. J.	61·80	0 59 44		
APRIL 2	12 21	34·07	34·17	276 29 40	53 23 20	0	...	G. S. J.	61·70	0 59 39		
,, 8	12 27	34·05	34·46	276 29 0	53 23 20	0	...	G. S. J.	60·85	0 58 46		
,, 15	12 35	33·97	34·42	276 29 25	53 23 20	0	...	G. S. J.	61·10	0 59 5	60·60	0 58 31
,, 22	12 36	33·92	34·20	276 27 20	53 23 20	0	...	G. S. J.	59·25	0 57 9		
,, 29	12 43	34·00	33·80	276 27 30	53 23 10	0	...	G. S. J.	60·10	0 57 56		
MAY 6	12 30	34·02	33·77	276 28 5	53 23 15	0	...	G. S. J.	60·75	0 58 29		
,, 13	12 26	33·97	33·85	276 27 5	53 23 10	0	...	G. S. J.	59·85	0 57 27		
,, 20	12 35	33·97	33·82	276 27 50	53 23 15	0	...	G. S. J.	60·30	0 58 8	60·62	0 58 22
,, 27	12 28	34·00	33·67	276 28 30	53 22 50	0	...	G. S. J.	61·60	0 59 23		
JUNE 3	12 34	34·00	33·72	276 26 45	53 23 15	10 E	0·47	G. S. J.	59·10	0 57 5		
,, 10	12 24	33·95	33·85	276 28 45	53 23 5	0	...	G. S. J.	61·65	0 59 11		
,, 17	12 30	33·92	33·80	276 26 50	53 23 5	0	...	G. S. J.	59·60	0 57 17	59·77	0 57 33
,, 24	12 23	34·02	33·65	276 25 50	53 22 55	0	...	G. S. J.	58·75	0 56 41		
JULY 1	12 18	34·00	33·77	276 28 15	53 23 10	0	...	G. S. J.	61·00	0 58 43		
,, 8	13 31	34·00	33·62	276 27 20	53 23 10	0	...	G. S. J.	60·35	0 57 57		
,, 15	12 25	33·92	33·80	276 27 20	53 22 55	0	...	G. S. J.	59·95	0 57 57	60·54	0 58 15
,, 22	12 20	33·97	33·77	276 27 30	53 22 50	0	...	G. S. J.	60·55	0 58 16		
,, 29	12 13	33·97	33·67	276 27 55	53 23 15	0	...	G. S. J.	60·85	0 58 22		
AUG. 5	12 10	33·80	34·17	276 27 10	53 23 15	0	...	G. S. J.	59·45	0 56 59		
,, 12	12 25	33·90	33·82	276 26 0	53 23 20	0	...	G. S. J.	58·70	0 56 10		
,, 19	12 51	34·00	33·60	276 27 20	53 23 25	0	...	G. S. J.	60·04	0 57 43	59·42	0 57 2
,, 26	12 12	33·95	33·77	276 26 55	53 23 15	0	...	G. S. J.	59·50	0 57 15		
SEPT. 2	12 28	33·90	33·05	276 26 25	53 23 30	0	...	G. S. J.	59·00	0 56 34		
,, 9	12 46	34·05	33·57	276 24 50	53 23 0	0	...	G. S. J.	58·05	0 55 43		
,, 16	12 44	34·00	33·77	276 26 0	53 23 15	0	...	G. S. J.	58·58	0 56 23	58·88	0 56 30
,, 23	12 32	34·02	33·72	276 27 25	53 23 25	0	...	G. S. J.	59·95	0 57 42		
,, 30	12 32	34·00	33·67	276 25 35	53 23 10	0	...	G. S. J.	58·80	0 56 8		
OCT. 7	12 28	33·95	33·80	276 27 45	53 23 50	0	...	G. S. J.	59·80	0 57 28		
,, 14	12 27	34·00	33·62	276 28 5	53 23 25	0	...	G. S. J.	60·60	0 58 27		
,, 22	12 18	33·97	33·77	276 28 45	53 23 35	0	...	G. S. J.	60·95	0 58 46	60·66	0 58 27
,, 28	12 29	34·00	33·60	276 29 0	53 23 40	0	...	G. S. J.	61·30	0 59 8		
NOV. 4	12 35	33·97	33·72	276 28 50	53 23 45	15 W.	0·68	G. S. J.	61·30	0 58 57		
,, 11	12 41	33·95	33·70	276 28 45	53 23 35	0	...	G. S. J.	61·15	0 58 49	61·42	0 58 58
,, 19	12 34	33·90	33·77	276 29 5	53 23 15	0	...	G. S. J.	61·90	0 59 22		
,, 25	12 25	33·90	33·82	276 28 30	53 23 15	0	...	G. S. J.	61·35	0 58 45		
DEC. 2	12 52	33·97	33·46	276 27 40	53 23 0	0	...	G. S. J.	61·20	0 58 34		
,, 9	12 38	34·00	33·65	276 29 5	53 23 0	0	...	G. S. J.	62·05	0 59 49		
,, 16	12 31	34·00	33·62	276 27 5	53 23 5	0	...	G. S. J.	60·20	0 57 47	61·00	0 58 32
,, 23	12 28	34·02	33·85	276 28 20	53 22 55	0	...	G. S. J.	61·60	0 58 59		
,, 31	12 50	33·82	33·87	276 26 45	53 22 35	0	...	G. S. J.	59·95	0 57 33		

The mean observed Declination for the year 1909 = 0° 58′ 31″

Absolute Magnetical Observations, Alibag—Table IIIa.

OBSERVATIONS OF INCLINATION, 1909.

Taken with Dip Circle No. 160 (Cambridge Scientific Instrument Co.) and two $3\frac{1}{2}$-inch Needles Nos. 1 and 2 by Dover.

1909 Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	End of Needle Dipping. Needle marked.	A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′	′	° ′
JAN. 1	13 52	14 46	G. S. J.	1	23 25·0	23 35·7	23 15·4	23 25·2	23 25·3		
„ „	14 54	15 47	G. S. J.	2	23 15·7	23 33·7	23 17·8	23 27·6	23 23·7		
„ 5	11 58	12 52	G. S. J.	1	23 34·5	23 41·1	23 17·3	23 23·1	23 29·0		
„ „	13 0	13 50	G. S. J.	2	23 24·4	23 41·3	23 17·8	23 30·8	23 28·6		
„ 8	13 40	14 36	G. S. J.	1	23 25·1	23 33·7	23 14·4	23 22·2	23 23·8	No. 1	
„ „	14 45	15 36	G. S. J.	2	23 21·9	23 36·3	23 15·7	23 30·9	23 26·2	° ′	
„ 12	11 53	12 51	G. S. J.	1	23 24·8	23 30·0	23 12·3	23 22·4	23 22·4	23 25·9	
„ „	12 58	13 47	G. S. J.	2	23 19·2	23 33·3	23 13·8	23 28·3	23 23·6		
„ 15	14 15	14 52	G. S. J.	1	23 28·9	23 39·2	23 14·4	23 28·4	23 27·7		
„ „	14 59	15 33	G. S. J.	2	23 25·8	23 40·3	23 16·2	23 29·5	23 27·9		23 25·8
„ 19	9 53	10 32	G. S. J.	1	23 26·9	23 40·4	23 8·5	23 27·4	23 25·8		
„ „	10 38	11 13	G. S. J.	2	23 21·4	23 32·6	23 15·6	23 27·2	23 24·2	No. 2	
„ 22	13 50	14 42	G. S. J.	1	23 26·1	23 39·9	23 12·7	23 25·4	23 26·0	° ′	
„ „	14 49	15 38	G. S. J.	2	23 21·1	23 34·3	23 15·6	23 30·5	23 25·4	23 25·8	
„ 26	11 58	12 49	G. S. J.	1	23 26·5	23 36·7	23 15·8	23 25·6	23 26·0		
„ „	12 56	13 48	G. S. J.	2	23 21·9	23 36·6	23 16·4	23 28·1	23 25·7		
„ 29	13 52	14 44	G. S. J.	1	23 27·8	23 38·7	23 16·7	23 26·8	23 27·5		
„ „	14 52	15 47	G. S. J.	2	23 20·7	23 37·0	23 19·2	23 29·2	23 26·5		
FEB. 2	12 0	12 49	G. S. J.	1	23 33·1	23 33·3	23 19·3	23 24·2	23 27·5		
„ „	13 3	13 52	G. S. J.	2	23 20·8	23 38·5	23 16·6	23 32·7	23 27·1		
„ 5	13 50	14 42	G. S. J.	1	23 27·6	23 38·2	23 14·7	23 27·5	23 27·0		
„ „	14 50	15 37	G. S. J.	2	23 21·7	23 33·6	23 20·4	23 31·6	23 26·8	No. 1	
„ 9	11 38	12 35	G. S. J.	1	23 24·7	23 39·8	23 16·0	23 26·3	23 26·7	° ′	
„ „	12 42	13 32	G. S. J.	2	23 24·2	23 36·0	23 17·7	23 31·5	23 27·3	23 26·0	
„ 12	13 54	14 46	G. S. J.	1	23 29·1	23 41·1	23 14·2	23 25·1	23 27·4		
„ „	14 55	15 48	G. S. J.	2	23 19·7	23 38·6	23 13·4	23 28·9	23 25·1		
„ 16	12 0	12 56	G. S. J.	1	23 22·1	23 36·6	23 15·1	23 24·9	23 24·7		23 25·9
„ „	13 3	13 51	G. S. J.	2	23 19·3	23 36·5	23 13·6	23 25·8	23 23·8		
„ 19	13 53	14 42	G. S. J.	1	23 26·7	23 37·9	23 10·7	23 25·1	23 25·1	No. 2	
„ „	14 49	15 36	G. S. J.	2	23 20·6	23 38·0	23 14·4	23 31·8	23 26·2	′	
„ 23	11 45	12 38	G. S. J.	1	23 23·4	23 39·6	23 10·6	23 24·4	23 24·5	23 25·8	
„ „	12 46	13 34	G. S. J.	2	23 18·7	23 35·4	23 15·6	23 30·9	23 25·1		
„ 26	13 48	14 39	G. S. J.	1	23 23·9	23 40·8	23 11·7	23 25·7	23 25·5		
„ „	14 48	15 33	G. S. J.	2	23 22·0	23 36·7	23 13·5	23 29·1	23 25·3		
MAR. 2	11 23	12 28	G. S. J.	1	23 23·2	23 37·6	23 4·4	23 29·5	23 23·7		
„ „	12 36	13 27	G. S. J.	2	23 20·8	23 40·5	23 11·2	23 30·3	23 25·7		
„ 5	12 53	13 48	G. S. J.	1	23 24·2	23 34·4	23 9·7	23 22·4	23 22·7		
„ „	13 56	14 47	G. S. J.	2	23 19·0	23 35·4	23 11·5	23 28·7	23 23·6		
„ 9	11 40	12 32	G. S. J.	1	23 21·2	23 37·9	23 12·5	23 24·2	23 23·9	No. 1	
„ „	12 41	13 32	G. S. J.	2	23 21·1	23 38·1	23 13·8	23 30·8	23 25·9	° ′	
„ 12	13 54	14 46	G. S. J.	1	23 23·6	23 36·4	23 8·6	23 24·4	23 23·2	23 24·6	
„ „	14 56	15 47	G. S. J.	2	23 24·7	23 36·8	23 13·4	23 29·3	23 26·0		
„ 16	11 46	12 40	G. S. J.	1	23 30·2	23 33·6	23 15·4	23 21·2	23 25·1		
„ „	12 47	13 38	G. S. J.	2	23 22·1	23 33·4	23 17·2	23 28·6	23 25·3		23 25·1
„ 19	13 53	14 47	G. S. J.	1	23 25·7	23 40·1	23 12·1	23 26·6	23 26·1		
„ „	14 54	15 46	G. S. J.	2	23 26·7	23 34·6	23 18·4	23 28·6	23 27·1	No. 2	
„ 23	12 3	12 52	G. S. J.	1	23 24·0	23 39·6	23 14·1	23 24·7	23 25·6	° ′	
„ „	12 58	13 50	G. S. J.	2	23 20·6	23 36·4	23 13·1	23 33·6	23 25·9	23 25·6	
„ 26	13 55	14 50	G. S. J.	1	23 25·4	23 40·6	23 14·4	23 26·1	23 26·6		
„ „	14 57	15 48	G. S. J.	2	23 22·4	23 36·7	23 15·7	23 28·5	23 25·8		
„ 31	12 2	12 55	G. S. J.	1	23 24·3	23 38·7	23 10·1	23 23·3	23 24·1		
„ „	13 3	13 55	G. S. J.	2	23 20·6	23 37·6	23 14·7	23 28·7	23 25·4		
APL. 2	13 54	14 47	G. S. J.	1	23 24·3	23 39·9	23 14·1	23 25·4	23 25·9		
„ „	14 56	15 52	G. S. J.	2	23 20·3	23 35·6	23 13·7	23 29·9	23 24·9		
„ 6	11 46	12 37	G. S. J.	1	23 23·4	23 40·4	23 9·4	23 22·6	23 23·9		
„ „	12 45	13 35	G. S. J.	2	23 20·7	23 33·9	23 13·4	23 29·9	23 24·5		
„ 9	13 56	14 53	G. S. J.	1	23 29·6	23 39·4	23 12·5	23 21·4	23 25·7	No. 1	
„ „	15 0	15 52	G. S. J.	2	23 21·7	23 36·5	23 16·8	23 32·3	23 26·8	° ′	
„ 13	11 48	12 43	G. S. J.	1	23 25·1	23 38·7	23 10·2	23 21·9	23 24·0	23 25·6	
„ „	12 50	13 40	G. S. J.	2	23 18·9	23 36·2	23 16·8	23 31·6	23 25·9		
„ 16	13 55	14 51	G. S. J.	1	23 26·1	23 41·3	23 16·8	23 24·9	23 27·3		
„ „	14 58	15 50	G. S. J.	2	23 23·1	23 37·1	23 17·1	23 32·7	23 27·5		23 25·9
„ 20	11 41	12 36	G. S. J.	1	23 23·1	23 36·2	23 9·6	23 23·2	23 23·0		
„ „	12 43	13 33	G. S. J.	2	23 20·1	23 34·7	23 16·1	23 29·7	23 25·1	No. 2	
„ 23	13 42	14 36	G. S. J.	1	23 28·1	23 38·4	23 14·6	23 20·2	23 25·3	° ′	
„ „	14 44	15 34	G. S. J.	2	23 24·3	23 36·2	23 16·6	23 31·9	23 27·2	23 26·1	
„ 27	11 40	12 35	G. S. J.	1	23 29·1	23 37·3	23 17·6	23 23·9	23 27·0		
„ „	12 42	13 32	G. S. J.	2	23 18·6	23 33·3	23 18·8	23 30·4	23 25·3		
„ 30	13 57	14 55	G. S. J.	1	23 36·2	23 41·6	23 14·4	23 20·9	23 28·3		
„ „	15 3	15 52	G. S. J.	2	23 23·4	23 37·2	23 18·9	23 31·7	23 27·8		

1909.	Date.	Alibag Civil Time. (0 to 24 hours) At commencement.	At conclusion.	Observer	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
		H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		
MAY	4	11 38	12 37	G. S. J.	1	23 31·2	23 38·8	23 12·5	23 25·4	23 27·0		
,,	,,	12 44	13 34	G. S. J.	2	23 20·6	23 34·2	23 16·2	23 29·5	23 25·1		
,,	7	13 53	14 49	G. S. J.	1	23 31·8	23 37·9	23 12·1	23 26·7	23 27·1		
,,	,,	14 57	15 50	G. S. J.	2	23 24·1	23 36·2	23 16·1	23 32·1	23 27·1	No. 1	
,,	11	11 42	12 39	G. S. J.	1	23 25·5	23 39·9	23 10·2	23 19·4	23 25·2	° ′	
,,	,,	12 47	13 37	G. S. J.	2	23 22·1	23 34·1	23 16·7	23 27·5	23 25·1	23 27·4	
,,	14.	13 50	14 46	G. S. J.	1	23 34·3	23 42·2	23 18·2	23 20·9	23 31·1		
,,	,,	14 55	15 47	G. S. J.	2	23 27·7	23 40·1	23 21·7	23 31·9	23 30·3		
,,	18	11 53	12 52	G. S. J.	1	23 31·9	23 37·5	23 17·5	23 24·9	23 27·9		23 27·6
,,	,,	13 0	13 53	G. S. J.	2	23 24·6	23 38·1	23 20·6	23 34·9	23 31·0		
,,	21	13 52	14 45	G. S. J.	1	23 33·1	23 40·5	23 18·8	23 25·7	23 29·5	No. 2	
,,	,,	14 53	15 48	G. S. J.	2	23 26·6	23 39·4	23 23·7	23 34·0	23 30·9	° ′	
,,	25	11 6	11 58	G. S. J.	1	23 26·7	23 36·9	23 12·4	23 21·1	23 24·3	23 27·9	
,,	,,	12 5	13 5	G. S. J.	2	23 20·3	23 36·6	23 14·9	23 29·9	23 25·2		
,,	28	13 51	14 50	G. S. J.	1	23 29·0	23 40·5	23 14·8	23 25·1	23 27·3		
,,	,,	14 58	15 51	G. S. J.	2	23 26·7	23 36·4	23 17·6	23 32·2	23 28·2		
JUNE	1	11 40	12 34	G. S. J.	1	23 30·6	23 39·4	23 15·9	23 22·7	23 27·1		
,,	,,	12 48	13 37	G. S. J.	2	23 24·1	23 38·3	23 20·3	23 32·4	23 28·8		
,,	4	13 40	14 33	G. S. J.	1	23 32·5	23 41·4	23 15·7	23 28·2	23 29·4		
,,	,,	14 42	15 35	G. S. J.	2	23 22·3	23 37·1	23 18·6	23 32·7	23 27·8		
,,	8	11 54	12 48	G. S. J.	1	23 27·7	23 37·7	23 12·4	23 27·4	23 26·3	No. 1	
,,	,,	12 57	13 52	G. S. J.	2	23 23·5	23 38·5	23 19·7	23 30·5	23 28·0	° ′	
,,	11	13 50	14 43	G. S. J.	1	23 26·6	23 39·1	23 13·6	23 24·6	23 26·0	23 27·4	
,,	,,	14 50	15 38	G. S. J.	2	23 24·5	23 32·6	23 18·6	23 31·0	23 26·7		
,,	15	11 37	12 27	G. S. J.	1	23 31·7	23 38·8	23 19·8	23 24·1	23 28·6		
,,	,,	12 37	13 28	G. S. J.	2	23 26·7	23 35·0	23 20·9	23 30·6	23 28·3		23 27·8
,,	18	13 50	14 40	G. S. J.	1	23 28·1	23 36·4	23 16·5	23 28·4	23 27·3		
,,	,,	14 48	15 38	G. S. J.	2	23 23·3	23 35·5	23 21·9	23 30·2	23 27·7	No. 2	
,,	22	11 54	12 47	G. S. J.	1	23 29·9	23 37·6	23 15·7	23 25·9	23 27·3	° ′	
,,	,,	12 55	13 49	G. S. J.	2	23 25·9	23 34·8	23 22·1	23 31·3	23 28·5	23 28·1	
,,	26	14 5	15 2	G. S. J.	1	23 27·1	23 39·3	23 11·3	23 30·7	23 27·1		
,,	,,	15 8	15 56	G. S. J.	2	23 22·1	23 37·9	23 16·6	23 38·2	23 28·7		
,,	29	12 21	13 19	G. S. J.	1	23 29·4	23 38·0	23 18·0	23 24·6	23 27·5		
,,	,,	13 28	14 16	G. S. J.	2	23 26·8	23 36·0	23 18·6	23 33·0	23 28·6		
JULY	2	13 54	14 48	G. S. J.	1	23 30·7	23 36·0	23 12·6	23 31·0	23 27·7		
,,	,,	14 58	15 53	G. S. J.	2	23 27·9	23 38·1	23 15·7	23 30·5	23 28·0		
,,	6	12 22	13 21	G. S. J.	1	23 29·7	23 37·5	23 17·9	23 25·9	23 27·7		
,,	,,	13 28	14 16	G. S. J.	2	23 23·6	23 34·9	23 15·4	23 31·1	23 26·2		
,,	9	13 52	14 48	G. S. J.	1	23 30·0	23 44·6	23 16·2	23 27·3	23 29·5	No. 1	
,,	,,	14 56	15 48	G. S. J.	2	23 25·5	23 38·2	23 20·1	23 33·0	23 29·2	° ′	
,,	13	11 55	12 48	G. S. J.	1	23 27·9	23 41·8	23 18·3	23 28·7	23 29·2	23 28·9	
,,	,,	12 55	13 50	G. S. J.	2	23 23·0	23 40·0	23 18·1	23 32·3	23 28·3		
,,	16	13 41	14 35	G. S. J.	1	23 28·4	23 39·8	23 16·5	23 30·2	23 28·7		
,,	,,	14 43	15 35	G. S. J.	2	23 25·9	23 39·1	23 21·1	23 35·7	23 30·4		23 28·9
,,	20	11 42	12 35	G. S. J.	1	23 31·5	23 35·9	23 21·9	23 24·7	23 28·5		
,,	,,	12 42	13 33	G. S. J.	2	23 25·9	23 34·1	23 22·6	23 28·6	23 27·8	No. 2	
,,	23	13 55	14 46	G. S. J.	1	23 33·6	23 35·4	23 14·6	23 27·3	23 27·7	° ′	
,,	,,	14 55	15 48	G. S. J.	2	23 27·3	23 33·2	23 23·6	23 31·8	23 29·0	23 28·8	
,,	27	11 54	12 46	G. S. J.	1	23 37·4	23 37·2	23 25·1	23 20·9	23 30·1		
,,	,,	12 53	13 48	G. S. J.	2	23 32·7	23 35·9	23 22·5	23 28·7	23 29·9		
,,	30	13 38	14 33	G. S. J.	1	23 38·7	23 36·1	23 21·6	23 28·9	23 31·3		
,,	,,	14 42	15 36	G. S. J.	2	23 34·5	23 34·7	23 18·3	23 24·1	23 30·4		
AUG.	3	11 43	12 34	G. S. J.	1	23 35·4	23 38·2	23 23·0	23 27·4	23 31·0		
,,	,,	10 42	13 30	G. S. J.	2	23 26·2	23 38·6	23 19·1	23 33·3	23 29·3		
,,	6	13 48	14 45	G. S. J.	1	23 24·2	23 43·4	23 19·4	23 29·7	23 29·2		
,,	,,	14 54	15 41	G. S. J.	2	23 28·8	23 35·0	23 19·7	23 34·0	23 29·4		
,,	10	11 58	12 48	G. S. J.	1	23 31·9	23 33·2	23 20·6	23 21·7	23 26·8	No. 1	
,,	,,	12 55	13 48	G. S. J.	2	23 30·1	23 33·6	23 20·8	23 27·1	23 27·9	° ′	
,,	13	13 54	14 50	G. S. J.	1	23 35·7	23 35·8	23 23·2	23 23·3	23 29·5	23 29·2	
,,	,,	14 58	15 51	G. S. J.	2	23 29·9	23 33·4	23 19·1	23 28·7	23 27·8		
,,	17	11 22	12 17	G. S. J.	1	23 30·8	23 36·1	23 15·2	23 23·7	23 26·4		
,,	,,	12 25	13 18	G. S. J.	2	23 25·4	23 35·4	23 22·0	23 27·7	23 27·6		23 29·1
,,	20	13 50	14 41	G. S. J.	1	23 32·7	23 40·1	23 21·6	23 25·3	23 29·9		
,,	,,	14 48	15 37	G. S. J.	2	23 30·7	23 39·6	23 24·5	23 30·3	23 31·3	No. 2	
,,	24	11 57	12 52	G. S. J.	1	23 32·4	23 40·8	23 17·7	23 28·4	23 29·8	° ′	
,,	,,	13 0	13 54	G. S. J.	2	23 24·7	23 37·2	23 23·6	23 30·7	23 29·0	23 29·1	
,,	27	13 48	14 44	G. S. J.	1	23 28·0	23 42·1	23 14·7	23 37·6	23 30·6		
,,	,,	14 51	15 49	G. S. J.	2	23 19·7	23 43·2	23 16·2	23 36·8	23 29·0		
,,	31	12 6	13 0	G. S. J.	1	23 29·3	23 40·9	23 18·2	23 28·7	23 29·3		
,,	,,	13 7	13 54	G. S. J.	2	23 28·7	23 38·4	23 22·2	23 32·6	23 30·5		

1909. Date.	Alibag Civil Time. (0 to 24 hours) At commencement.	At conclusion.	Observer.	End of Needle Dipping. Needle marked.	A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		° ′
SEPT. 3	13 57	14 52	G. S. J.	1	23 30·5	23 40·2	23 18·8	23 29·1	23 29·6		
„ „	15 0	15 52	G. S. J.	2	23 28·8	23 38·2	23 24·5	23 33·1	23 31·1		
„ 7	12 0	12 57	G. S. J.	1	23 31·9	23 43·4	23 16·1	23 25·9	23 29·3	No. 1	
„ „	13 4	13 53	G. S. J.	2	23 25·3	23 33·9	23 21·0	23 30·0	23 27·5	° ′	
„ 10	13 53	14 45	G. S. J.	1	23 33·2	23 42·7	23 19·9	23 28·7	23 31·1	23 29·2	
„ „	14 54	15 50	G. S. J.	2	23 26·4	23 39·4	23 25·1	23 32·9	23 30·9		
„ 14	11 33	12 25	G. S. J.	1	23 27·4	23 43·0	23 11·1	23 26·2	23 26·9		
„ „	12 33	13 24	G. S. J.	2	23 22·6	23 35·4	23 19·6	23 32·8	23 27·6		
„ 17	13 57	14 44	G. S. J.	1	23 26·6	23 44·9	23 14·6	23 30·3	23 29·1		23 29·4
„ „	14 52	15 37	G. S. J.	2	23 25·2	23 40·5	23 22·1	23 33·7	23 30·4		
„ 21	11 56	12 53	G. S. J.	1	23 23·5	23 44·2	23 12·5	23 27·7	23 27·0	No. 2	
„ „	13 0	13 53	G. S. J.	2	23 23·7	23 38·1	23 17·6	23 28·5	23 27·0	° ′	
„ 24	13 52	14 44	G. S. J.	1	23 28·2	23 43·5	23 17·7	23 31·0	23 30·1	23 29·5	
„ „	14 51	15 46	G. S. J.	2	23 25·3	23 36·6	23 26·6	23 34·7	23 30·8		
„ 28	11 58	12 50	G. S. J.	1	23 30·4	23 44·9	23 17·9	23 28·9	23 30·5		
„ „	12 58	13 48	G. S. J.	2	23 27·5	23 39·5	23 24·1	23 33·5	23 31·1		
OCT. 1	13 50	14 41	G. S. J.	1	23 33·1	23 51·9	23 16·9	23 34·9	23 34·2		
„ „	14 48	15 36	G. S. J.	2	23 27·1	23 44·5	23 23·5	23 35·4	23 32·6		
„ 5	11 46	12 39	G. S. J.	1	23 28·2	23 42·7	23 15·9	23 30·0	23 29·2		
„ „	12 47	13 38	G. S. J.	2	23 29·2	23 37·2	23 23·9	23 34·8	23 31·3		
„ 8	13 56	14 50	G. S. J.	1	23 33·7	23 48·7	23 16·5	23 33·0	23 33·0	No. 1	
„ „	14 58	15 47	G. S. J.	2	23 33·1	23 39·1	23 23·4	23 34·2	23 32·4	° ′	
„ 12	11 58	12 51	G. S. J.	1	23 34·2	23 40·5	23 17·9	23 30·6	23 30·8	23 31·8	
„ „	12 58	13 50	G. S. J.	2	23 30·6	23 35·3	23 24·9	23 31·6	23 30·6		
„ 15	13 35	14 26	G. S. J.	1	23 32·1	23 41·6	23 14·7	23 28·3	23 29·2		
„ „	14 34	15 26	G. S. J.	2	23 31·4	23 37·8	23 23·7	23 32·6	23 31·4		23 31·7
„ 19	11 42	12 33	G. S. J.	1	23 39·3	23 48·9	23 19·2	23 29·7	23 34·3		
„ „	12 42	13 33	G. S. J.	2	23 30·1	23 42·4	23 26·6	23 34·5	23 33·4	No. 2	
„ 22	13 53	14 46	G. S. J.	1	23 34·9	23 47·1	23 18·9	23 29·6	23 32·6	° ′	
„ „	14 54	15 46	G. S. J.	2	23 28·4	23 41·3	23 24·4	23 34·2	23 32·1	23 31·5	
„ 26	11 54	12 50	G. S. J.	1	23 33·9	23 47·2	23 18·6	23 30·1	23 32·4		
„ „	12 57	13 51	G. S. J.	2	23 28·2	23 41·1	23 17·0	23 34·1	23 30·1		
„ 29	13 55	14 50	G. S. J.	1	23 30·4	23 44·7	23 16·7	23 31·3	23 30·8		
„ „	14 58	15 50	G. S. J.	2	23 26·2	23 38·7	23 21·4	23 32·5	23 29·7		
NOV. 2	11 58	12 52	G. S. J.	1	23 31·2	23 43·4	23 18·3	23 30·8	23 30·9		
„ „	13 0	13 50	G. S. J.	2	23 25·0	23 37·5	23 21·5	23 34·0	23 29·5		
„ 5	13 40	14 38	G. S. J.	1	23 30·0	23 41·3	23 17·9	23 31·3	23 30·1		
„ „	14 45	15 33	G. S. J.	2	23 24·9	23 36·1	23 21·9	23 33·6	23 29·1		
„ 9	12 0	12 55	G. S. J.	1	23 30·6	23 38·1	23 15·7	23 32·2	23 29·1	No. 1	
„ „	13 2	13 51	G. S. J.	2	23 28·4	23 42·2	23 23·3	23 31·4	23 31·3	° ′	
„ 12	13 48	14 40	G. S. J.	1	23 37·4	23 44·1	23 19·2	23 31·7	23 33·1	23 31·7	
„ „	14 48	15 33	G. S. J.	2	23 26·8	23 40·4	23 24·6	23 34·2	23 31·5		
„ 17	11 42	12 16	G. S. J.	1	23 33·7	23 45·9	23 18·6	23 31·2	23 32·3		
„ „	12 23	12 53	G. S. J.	2	23 28·9	23 42·5	23 25·9	23 34·7	23 33·0		23 31·5
„ 19	13 59	14 33	G. S. J.	1	23 33·6	23 46·2	23 18·6	23 27·9	23 31·6		
„ „	14 39	15 8	G. S. J.	2	23 27·5	23 38·0	23 25·1	23 36·4	23 31·7	No. 2	
„ 23	11 41	12 30	G. S. J.	1	23 36·4	23 46·5	23 20·4	23 27·4	23 32·7	° ′	
„ „	12 38	13 27	G. S. J.	2	23 27·2	23 38·2	23 25·3	23 34·5	23 31·3	23 31·3	
„ 26	13 52	14 41	G. S. J.	1	23 35·1	23 43·7	23 20·0	23 26·7	23 31·4		
„ „	14 48	15 33	G. S. J.	2	23 26·3	23 39·1	23 24·1	23 32·3	23 30·4		
„ 30	11 58	12 48	G. S. J.	1	23 37·4	23 46·1	23 23·5	23 30·9	23 34·5		
„ „	12 56	13 47	G. S. J.	2	23 30·6	23 42·9	23 26·4	23 34·1	23 33·5		
DEC. 3	13 56	14 50	G. S. J.	1	23 33·2	23 45·5	23 18·7	23 31·2	23 32·1		
„ „	14 57	15 47	G. S. J.	2	23 30·8	23 41·1	23 24·9	23 35·4	23 33·0		
„ 7	11 46	12 40	G. S. J.	1	23 31·7	23 41·4	23 20·5	23 31·2	23 31·2		
„ „	12 47	13 34	G. S. J.	2	23 27·4	23 39·0	23 24·5	23 34·6	23 31·4		
„ 10	13 55	14 45	G. S. J.	1	23 37·0	23 46·4	23 20·6	23 32·0	23 34·0	No. 1	
„ „	14 53	15 46	G. S. J.	2	23 26·7	23 46·6	23 22·3	23 35·4	23 32·7	° ′	
„ 14	11 47	12 37	G. S. J.	1	23 33·4	23 48·6	23 18·0	23 36·1	23 34·0	23 32·0	
„ „	12 45	13 34	G. S. J.	2	23 27·7	23 39·6	23 24·7	23 38·2	23 32·5		
„ 17	13 40	14 35	G. S. J.	1	23 29·7	23 41·4	23 18·9	23 31·2	23 30·3		
„ „	14 42	15 33	G. S. J.	2	23 24·3	23 39·9	23 20·8	23 35·7	23 30·2		23 31·8
„ 21	11 48	12 40	G. S. J.	1	23 32·3	23 43·5	23 18·3	23 32·4	23 31·6		
„ „	12 47	13 38	G. S. J.	2	23 24·8	23 41·4	23 24·4	23 36·6	23 31·8	No. 2	
„ 24	13 56	14 46	G. S. J.	1	23 33·6	23 44·1	23 22·1	23 31·9	23 32·9	° ′	
„ „	14 54	15 46	G. S. J.	2	23 28·0	23 40·9	23 25·1	23 35·1	23 32·3	23 31·6	
„ 29	12 0	12 52	G. S. J.	1	23 33·1	23 46·1	23 17·2	23 29·7	23 31·5		
„ „	13 0	13 49	G. S. J.	2	23 23·7	23 38·1	23 23·6	23 34·6	23 30·0		
„ 31	13 57	14 52	G. S. J.	1	23 30·2	23 43·5	23 17·9	23 31·6	23 30·8		
„ „	15 0	15 48	G. S. J.	2	23 25·2	23 38·9	23 23·6	23 33·9	23 30·4		

The mean Dip for the year ... { With Needle No. 1 = 23° 28′·3 ; With Needle No. 2 = 23° 28′·4

The mean† observed Dip for the year 1909 = 23° 28′·4

† The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table IIIb.

OBSERVATIONS OF INCLINATION.

Taken with Inductor No. 41 by Schulze and Galvanometer No. 200 by Plath.

1909. Date.		Alibag Civil Time (0 to 24 hours) At commencement. H. m.	At conclusion. H. m.	Observers.	Face of Circle. East. ° ′	West. ° ′	Mean Inclination. ° ′	Monthly Mean Inclination. ° ′
JAN.	2	12 23	13 4	G. S. J. and B. P.	23 25·78	23 25·48	23 25·63	
,,	9	12 29	13 1	,,	23 25·16	23 26·43	23 25·79	
,,	16	12 44	13 10	,,	23 26·45	23 26·13	23 26·29	23 26·55
,,	23	12 35	13 14	,,	23 25·90	23 27·24	23 26·57	
,,	30	12 27	12 58	,,	23 28·71	23 28·28	23 28·49	
FEB.	6	12 25	13 27	,,	23 27·35	23 30·05	23 28·70	
,,	13	12 58	13 25	,,	23 30·78	23 27·16	23 28·97	
,,	20	12 33	13 17	,,	23 24·56	23 27·89	23 26·22	23 27·22
,,	27	12 10	12 51	,,	23 26·19	23 23·79	23 24·99	
MAR.	6	12 33	13 20	,,	23 26·84	23 29·80	23 28·32	
,,	13	12 24	12 52	,,	23 25·32	23 27·32	23 26·32	23 27·34
,,	20	12 44	13 17	,,	23 27·45	23 31·67	23 29·56	
,,	27	12 13	12 53	,,	23 25·03	23 25·30	23 25·16	
APL.	3	12 19	12 54	,,	23 26·55	23 29·38	23 27·96	
,,	10	12 24	12 59	,,	23 26·21	23 27·14	23 26·67	23 26·91
,,	17	12 24	12 54	,,	23 26·40	23 28·41	23 27·40	
,,	24	12 6	12 30	,,	23 25·62	23 25·65	23 25·63	
MAY	1	12 33	12 58	,,	23 28·30	23 29·55	23 28·92	
,,	8	12 32	13 15	,,	23 27·28	23 28·39	23 27·83	
,,	16	11 37	12 5	,,	23 31·00	23 31·85	23 31·42	23 29·71
,,	22	12 24	12 49	,,	23 29·50	23 30·28	23 29·89	
,,	29	12 23	12 56	,,	23 30·25	23 30·72	23 30·48	
JUNE	5	12 28	13 3	,,	23 27·98	23 28·83	23 28·40	
,,	12	12 35	13 25	,,	23 29·03	23 30·21	23 29·62	
,,	19	12 29	12 53	,,	23 28·48	23 28·91	23 28·69	23 28·67
,,	26	12 44	13 29	,,	23 28·41	23 27·52	23 27·96	
JULY	3	13 6	14 12	,,	23 30·09	23 31·96	23 31·02	
,,	10	11 54	12 32	,,	23 29·10	23 30·50	23 29·80	
,,	17	12 13	12 50	,,	23 27·18	23 29·38	23 28·28	23 30·02
,,	24	12 35	13 2	,,	23 30·47	23 31·27	23 30·87	
,,	31	12 41	13 7	,,	23 29·28	23 30·95	23 30·11	
AUG.	7	12 29	13 22	,,	23 27·20	23 27·87	23 27·53	
,,	14	12 35	13 15	,,	23 31·31	23 31·65	23 31·48	23 29·86
,,	21	12 36	13 13	,,	23 30·14	23 30·44	23 30·29	
,,	28	12 41	13 28	,,	23 29·36	23 30·91	23 30·13	
SEPT	4	12 30	13 10	,,	23 32·05	23 33·00	23 32·52	
,,	10	11 57	12 38	,,	23 31·82	23 32·24	23 32·03	23 32·14
,,	18	12 43	13 15	,,	23 30·86	23 33·14	23 32·00	
,,	25	12 14	12 54	,,	23 31·44	23 32·59	23 32·01	
OCT.	2	12 24	12 59	,,	23 33·63	23 34·07	23 33·85	
,,	9	12 29	13 33	,,	23 33·71	23 36·19	23 34·95	
,,	16	12 53	13 36	,,	23 29·19	23 34·20	23 31·69	23 33·68
,,	23	12 41	13 28	,,	23 33·67	23 35·80	23 34·73	
,,	30	12 20	13 15	,,	23 31·65	23 34·67	23 33·16	
NOV.	6	12 57	13 48	,,	23 31·98	23 32·78	23 32·38	
,,	13	12 26	13 6	,,	23 34·26	23 35·14	23 34·70	
,,	20	12 37	13 24	,,	23 32·00	23 33·95	23 32·97	23 33·48
,,	27	12 17	12 57	,,	23 33·61	23 34·14	23 33·87	
DEC.	4	12 34	13 3	,,	23 34·45	23 35·16	23 34·80	
,,	11	12 24	12 54	,,	23 33·79	23 33·81	23 33·80	
,,	18	12 15	12 45	,,	23 34·12	23 35·27	23 34·69	23 34·46
,,	25	12 39	13 21	,,	23 33·86	23 35·24	23 34·55	

The mean† observed Inclination for the year 1909 = 23 30·00

† The monthly and annual means corrected for diurnal variation appear in table VIII.

The temporary pillar on which the Inductor is mounted is a wooden one and not isolated from the floor of the observation room. The somewhat large differences occasionally noted in the results for face East and face West are probably in the main due to level changes on this account.

Absolute Magnetical Observations, Alibag—Table Ia.

Observations of Vibration and Deflection, taken with the Magnetometer No. 7 (T. Cooke and Sons) for the determination of Absolute Horizontal Force.

1910.

1910. Date.	Vibration Magnet. Civil Time, Mean.	Time of one Vibration	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Angle of Deflection of Magnet marked 7. Distance. 22·5 cms.	30·0 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Observer.	Values of m.	Calculated Results in C. G. S. Unit. Values of H. From Deflection at distance. 22·5 cms. ($H_{22\cdot5}$)	30·0 cms. ($H_{30\cdot0}$)	Difference. $H_{22\cdot5} - H_{30\cdot0}$	Mean. $\frac{H_{22\cdot5} + H_{30\cdot0}}{2}$	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	cms.	°	′ ″	° ′ ″	°	cms.	°							
JAN. 5	12 50	2·7064	1·37	26·1	+0·5	5·735	83·25	26 40 37	10 51 1	26·7	5·775	83·25	G. S. J.	938·92	0·36850	0·36849	+·00001	0·36849	
,, ,,	15 13	2·7071	1·36	27·3	,,	5·617	83·30	26 40 27	10 51 0	27·0	5·667	83·30	G. S. J.	938·99	·36850	·36849	+·00001	·36849	
,, 12	12 31	2·7035	1·35	25·4	0·0	6·760	83·15	26 39 31	10 50 36	25·5	6·712	83·15	G. S. J.	939·20	·36906	·36905	+·00001	·36905	
,, ,,	14 55	2·7056	1·36	26·0	,,	5·670	83·15	26 40 30	10 50 56	25·9	6·183	83·15	G. S. J.	938·97	·36869	·36869	·00000	·36869	
,, 19	12 23	2·7040	1·30	23·6	+0·3	5·887	82·10	26 43 29	10 51 59	23·9	5·672	82·10	G. S. J.	939·33	·36856	·36859	−·00003	·36857	·368497
,, ,,	15 10	2·7057	1·36	24·9	,,	5·405	82·15	26 43 57	10 52 9	24·3	5·347	82·15	G. S. J.	939·23	·36837	·36839	−·00002	·36838	
,, 26	12 34	2·7064	1·36	25·4	−0·3	5·140	81·60	26 43 23	10 52 1	25·4	5·027	81·60	G. S. J.	939·20	·36827	·36827	·00000	·36827	
,, ,,	15 11	2·7078	1·37	26·0	,,	4·592	81·65	26 43 40	10 52 10	25·9	4·832	81·65	G. S. J.	939·05	·36805	·36804	+·00001	·36804	
FEB. 2	12 49	2·7068	1·35	27·7	−0·1	5·923	81·70	26 39 2	10 50 21	28·0	5·980	81·70	G. S. J.	938·99	·36864	·36865	−·00001	·36864	
,, ,,	15 8	2·7077	1·34	28·7	,,	5·500	81·77	26 39 27	10 50 30	28·3	5·757	81·75	G. S. J.	939·10	·36854	·36854	·00000	·36854	
,, 9	12 32	2·7068	1·36	27·7	−0·1	5·726	82·20	26 39 50	10 50 41	27·8	5·572	82·20	G. S. J.	939·18	·36857	·36857	·00000	·36857	
,, ,,	15 14	2·7079	1·38	28·1	,,	5·327	82·20	26 40 1	10 50 47	28·0	5·360	82·20	G. S. J.	938·99	·36842	·36841	+·00001	·36841	·368610
,, 16	12 32	2·7044	1·37	25·8	+0·3	6·367	82·20	26 39 54	10 50 37	26·3	6·285	82·20	G. S. J.	939·23	·36887	·36889	−·00002	·36888	
,, ,,	15 13	2·7059	1·35	26·5	,,	5·827	82·20	26 40 22	10 50 51	26·1	6·025	82·20	G. S. J.	938·97	·36869	·36870	−·00001	·36869	
,, 23	12 48	2·7055	1·35	27·0	−0·2	5·822	82·00	26 40 5	10 50 45	27·2	5·665	82·05	G. S. J.	939·38	·36871	·36872	−·00001	·36871	
,, ,,	15 15	2·7075	1·36	28·0	,,	5·147	82·12	26 40 30	10 50 55	27·7	5·320	82·10	G. S. J.	939·14	·36844	·36845	−·00001	·36844	
MAR. 2	12 33	2·7051	1·36	26·3	+0·2	6·058	82·25	26 40 5	10 50 44	26·2	6·020	82·25	G. S. J.	939·14	·36881	·36882	−·00001	·36881	
,, ,,	15 14	2·7064	1·37	26·9	,,	5·445	82·25	26 40 52	10 51 1	26·7	5·508	82·25	G. S. J.	939·14	·36854	·36856	−·00002	·36855	
,, 9	12 45	2·7052	1·36	25·9	+·02	6·037	82·30	26 40 45	10 51 1	25·9	5·790	82·30	G. S. J.	939·14	·36871	·36871	·00000	·36871	
,, ,,	14 58	2·7068	1·37	26·2	,,	4·953	82·35	26 40 56	10 51 7	26·1	5·387	82·35	G. S. J.	938·75	·36848	·36847	+·00001	·36847	
,, 16	12 28	2·7068	1·36	28·6	−0·4	5·853	82·80	26 37 28	10 49 54	28·6	5·777	82·80	G. S. J.	938·94	·36882	·36879	+·00003	·36880	
,, ,,	15 16	2·7080	1·36	29·0	,,	5·290	82·90	26 38 5	10 50 10	28·9	5·442	82·85	G. S. J.	938·88	·36860	·36856	+·00004	·36858	·368578
,, 23	12 43	2·7067	1·36	29·0	−0·1	5·917	83·70	26 38 5	10 50 5	28·6	5·670	83·70	G. S. J.	939·23	·36881	·36879	+·00002	·36880	
,, ,,	15 14	2·7077	1·36	29·0	,,	5·230	83·70	26 38 22	10 50 10	29·0	5·372	83·70	G. S. J.	939·03	·36861	·36860	+·00001	·36860	
,, 31	12 32	2·7097	1·35	30·3	0·0	4·337	84·90	26 39 4	10 50 25	30·2	4·245	84·90	G. S. J.	939·10	·36827	·36826	+·00001	·36826	
,, ,,	15 18	2·7101	1·35	30·6	,,	4·030	84·02	26 39 6	10 50 27	30·5	4·153	84·00	G. S. J.	939·12	·36821	·36820	+·00001	·36820	

Apr.	6	12	25	2·7088	1·37	30·3	−0·1	5·042	85·80	26	37	26	10	49	52	30·3	4·982	85·80	G. S. J.	939·01	·36854	·36852	+·00002	·36853	
,,	,,	15	14	2·7094	1·35	30·8	,,	4·530	85·80	26	37	49	10	49	56	30·6	4·672	85·80	G. S. J.	939·07	·36846	·36845	+·00001	·36845	
,,	13	12	23	2·7074	1·36	29·7	+0·2	5·483	86·35	26	37	5	10	49	40	29·7	5·361	86·35	G. S. J.	939·12	·36879	·36878	+·00001	·36878	
,,	,,	15	15	2·7086	1·37	30·3	,,	4·700	86·35	26	37	53	10	49	57	30·0	4·832	86·30	G. S. J.	939·12	·36856	·36855	+·00001	·36855	·368417
,,	21	12	17	2·7080	1·37	30.1	+0·1	5·216	87·00	26	36	36	10	49	30	30·1	5·165	87·00	G. S. J.	938·94	·36875	·36874	+·00001	·36874	
,,	,,	15	15	2·7097	1·35	30·9	,,	4·382	87·00	26	37	6	10	49	43	30·6	4·755	87·00	G. S. J.	938·81	·36850	·36848	+·00002	·36849	
,,	27	12	17	2·7106	1·36	29·8	+0·2	3·305	87·50	26	40	43	10	51	1	29·2	3·455	87·50	G. S. J.	938·88	·36802	·36802	·00000	·36802	
,,	,,	15	18	2·7109	1·37	29·6	,,	2·910	87·50	26	41	53	10	51	34	29·6	2·737	87·50	G. S. J.	939·20	·36780	·36777	+·00003	·36778	
May	4	12	27	2·7091	1·35	30·2	0·0	4·812	88·05	26	37	26	10	49	52	30·0	4·607	88·05	G. S. J.	938·84	·36854	·36851	+·00003	·36852	
,,	,,	15	16	2·7090	1·34	30·2	,,	4·385	88·05	26	37	22	10	49	50	30·3	4·447	88·05	G. S. J.	938·90	·36853	·36850	+·00003	·36851	
,,	12	12	32	2·7089	1·35	30·7	+0·5	4·655	88·60	26	37	28	10	49	51	30·1	4·677	88·60	G. S. J.	939·03	·36860	·36858	+·00002	·36859	
,,	,,	15	12	2·7091	1·35	30·0	,,	4·565	88·60	26	37	16	10	49	43	30·2	4·665	88·60	G. S. J.	938·75	·36853	·36852	+·00001	·36852	
,,	18	12	27	2·7082	1·37	30·7	+0·5	4·867	89·15	26	37	3	10	49	43	30·0	4·772	89·15	G. S. J.	939·14	·36874	·36871	+·00003	·36872	·368522
,,	,,	15	20	2·7088	1·36	30·3	,,	4·445	89·15	26	36	57	10	49	35	30·6	4·562	89·15	G. S. J.	938·90	·36858	·36858	·00000	·36858	
,,	25	12	48	2·7096	1·37	31·6	+0·3	3·935	89·70	26	36	39	10	49	31	31·7	3·993	89·70	G. S. J.	939·12	·36851	·36850	+·00001	·36850	
,,	,,	14	56	2·7113	1·38	31·8	,,	3·460	89·70	26	36	56	10	49	39	31·9	3·777	89·70	G. S. J.	938·71	·36826	·36823	+·00003	·36824	
June	1	12	26	2·7092	1·37	31·6	+0·5	9·370†	90·50	26	35	46	10	49	19	30·9	9·262†	90·50	G. S. J.	938·90	·36874	·36869	+·00005	·36871	
,,	,,	15	16	2·7097	1·36	31·0	,,	8·690	90·50	26	36	5	10	49	22	31·4	8·865	90·50	G. S. J.	938·77	·36854	·36851	+·00003	·36852	
,,	8	12	18	2·7060	1·36	29·4	+1·0	10·075	90·70	26	35	50	10	49	15	29·0	10·057	90·70	G. S. J.	939·05	·36916	·36913	+·00003	·6914	
,,	,,	15	15	2·7080	1·36	29·7	,,	9·230	90·70	26	36	46	10	49	32	29·1	9·585	90·70	G. S. J.	938·69	·36880	·36880	·00000	·6880	
,,	15	12	21	2·7083	1·37	30·0	+0·4	9·248	90·10	26	36	7	10	49	25	30·2	9·221	90·10	G. S. J.	938·75	·36875	·36871	+·00004	·3873	
,,	,,	15	15	2·7091	1·38	30·3	,,	8·897	90·05	26	36	55	10	49	38	29·8	9·058	90·05	G. S. J.	938·66	·36861	·36860	+·00001	·36860	·368692
,,	22	12	21	2·7081	1·38	27·9	+0·4	8·525	89·65	26	39	9	10	50	41	27·9	8·555	89·60	G. S. J.	938·69	·36848	·36841	+·00007	·36844	
,,	,,	15	16	2·7081	1·37	27·5	,,	8·302	89·52	26	40	1	10	50	57	27·9	8·230	89·57	G. S. J.	938·81	·36835	·36830	+·00005	·36832	
,,	29	12	31	2·7064	1·37	27·9	+0·3	9·735	88·20	26	37	10	10	49	50	27·9	9·795	88·15	G. S. J.	938·71	·36892	·36888	+·00004	·36890	
,,	,,	15	16	2·7066	1·36	27·4	,,	9·315	88·10	26	38	23	10	50	15	27·2	9·660	88·10	G. S. J.	938·09	·36878	·36875	+·00003	·36876	
July	6	12	13	2·7071	1·36	28·0	+0·3	9·402	86·70	26	38	48	10	50	29	27·9	9·242	86·70	G. S. J.	938·94	·36866	·36861	+·00005	·36863	
,,	,,	15	15	2·7084	1·37	28·3	,,	8·863	86·65	26	38	44	10	50	21	28·2	9·101	86·65	G. S. J.	938·58	·36849	·36846	+·00003	·36847	
,,	13	12	21	2·7081	1·37	30·2	+0·2	9·471	86·85	26	36	51	10	49	37	30·2	9·342	86·85	G. S. J.	939·05	·36872	·36870	+·00002	·36871	
,,	,,	15	13	2·7091	1·37	30·7	,,	8·960	86·85	26	37	17	10	49	46	30·6	9·100	86·85	G. S. J.	939·01	·36854	·36853	+·00001	·36853	
,,	20	12	36	2·7076	1·38	30·2	+0·2	9·762	87·15	26	36	5	10	49	21	30·2	9·667	87·20	G. S. J.	939·03	·36887	·36884	+·00003	·36885	·368650
,,	,,	14	57	2·7088	1·38	30·7	,,	9·322	87·20	26	36	25	10	49	25	30·5	9·431	87·20	G. S. J.	938·84	·36868	·36867	+·00001	·36867	
,,	27	12	30	2·7070	1·38	29·0	+0·4	9·511	87·80	26	37	17	10	49	40	29·3	9·365	87·80	G. S. J.	939·01	·36879	·36881	−·00002	·36880	
,,	,,	15	1	2·7079	1·38	28·6	,,	8·885	87·75	26	38	37	10	50	11	28·9	8·988	87·80	G. S. J.	938·90	·36854	·36854	·00000	·36854	
Aug.	3	12	22	2·7066	1·36	27·8	+0·5	9·575	86·85	26	38	48	10	50	12	27·6	9·495	86·90	G. S. J.	938·92	·36874	·36877	−·00003	·36875	
,,	,,	15	13	2·7072	1·37	27·0	,,	8·572	86·80	26	40	47	10	50	55	27·3	8·662	86·85	G. S. J.	938·97	·36840	·36843	−·00003	·36841	
,,	10	13	3	2·7087	1·36	26·6	0·0	7·467	85·70	26	45	0	10	52	39	26·0	7·272	85·62	G. S. J.	939·27	·36783	·36784	−·00001	·36783	
,,	,,	15	14	2·7093	1·39	26·1	,,	7·232	85·60	26	44	12	10	52	32	26·0	7·407	85·60	G. S. J.	938·79	·36779	·36774	+·00005	·36776	
,,	17	12	18	2·7060	1·37	28·0	+0·4	9·812	85·35	26	37	52	10	49	55	28·0	9·822	85·35	G. S. J.	939·01	·36890	·36891	−·00001	·36890	
,,	,,	15	17	2·7070	1·33	28·3	,,	9·402	85·35	26	38	9	10	49	55	28·5	9·555	85·35	G. S. J.	938·90	·36871	·36875	−·00004	·36873	·368368
,,	24	12	20	2·7083	1·36	28·0	+0·1	8·442	85·80	26	41	4	10	51	2	27·4	8·467	85·80	G. S. J.	938·92	·36830	·36833	−·00003	·36831	
,,	,,	15	14	2·7087	1·36	28·0	,,	8·000	85·80	26	41	2	10	51	6	28·0	8·213	85·80	G. S. J.	938·92	·36820	·36821	−·00001	·36820	
,,	31	12	20	2·7080	1·36	28·9	+0·4	8·835	86·25	26	38	52	10	50	13	28·9	8·785	86·25	G. S. J.	938·99	·36852	·36854	−·00002	·36853	
,,	,,	15	13	2·7084	1·34	27·9	,,	8·297	86·25	26	40	8	10	50	45	28·7	8·360	86·25	G. S. J.	938·94	·36826	·36827	−·00001	·36826	
Sept.	8	12	14	2·7074	1·36	28·9	+0·1	9·099	86·00	26	38	17	10	50	0	28·9	9·071	86·00	G. S. J.	939·05	·36866	·36869	−·00003	·36867	
,,	,,	15	14	2·7090	1·36	29·4	,,	8·462	86·00	26	38	56	10	50	16	29·3	8·610	86·00	G. S. J.	938·84	·36838	·36840	−·00002	·36839	
,,	14	12	37	2·7074	1·36	28·7	+0·1	9·161	86·65	26	37	51	10	49	52	28·5	9·343	86·65	G. S. J.	938·81	·36873	·36875	−·00002	·36874	
,,	,,	14	50	2·7074	1·36	27·9	,,	8·830	86·65	26	38	35	10	50	10	28·2	9·046	86·65	G. S. J.	938·75	·36860	·36862	−·00002	·36861	
,,	21	12	20	2·7064	1·37	25·9	+0·7	8·407	86·70	26	41	39	10	51	16	26·1	8·473	86·70	G. S. J.	938·99	·36843	·36847	−·00004	·36845	·368470
,,	,,	15	13	2·7078	1·37	26·4	,,	7·725	86·70	26	42	4	10	51	34	26·4	8·047	86·70	G. S. J.	938·84	·36821	·36820	+·00001	·36820	
,,	28	12	16	2·7086	1·36	29·0	+0·2	8·410	86·82	26	38	45	10	50	16	29·1	8·447	86·80	G. S. J.	938·84	·36844	·36844	·00000	·36844	
,,	,,	15	13	2·7094	1·35	29·2	,,	7·958	86·80	26	39	6	10	50	21	29·7	8·088	86·80	G. S. J.	938·84	·36826	·36827	−·00001	·36826	

1910. Date.	Vibration Magnet. Civil Time, Mean.	Time of one Vibration	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Angle of Deflection of Magnet marked 7. Distance. 22·5 cms.	30·0 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Ordinate.	Thermometer.	Observer	Calculated Results in C. G. S. Unit. Values of m.	Values of H. From Deflection at distance. 22·5 cms. ($H_{22\cdot5}$)	30·0 cms. ($H_{30\cdot0}$)	Difference. $H_{22\cdot5} - H_{30\cdot0}$	Mean. $\frac{H_{22\cdot5} + H_{30\cdot0}}{2}$	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9		10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	cms.	°	° ′ ″		″ ′ ″	°	cms.	°							
Oct. 5	12 27	2·7078	1·34	28·5	+0·4	8·640	86·40	26 39 5		10 50 24	28·4	8·603	86·40	G. S. J.	938·92	0·36853	0·36853	·00000	0·36853	
,, ,,	15 15	2·7084	1·38	28·9	,,	8·332	86·40	26 39 11		10 50 27	28·9	8·365	86·40	G. S. J.	938·97	·36843	·36843	·00000	·36843	
,, 13	12 36	2·7081	1·38	29·9	+0·3	8·653	86·85	26 37 15		10 49 46	29·8	8·575	86·85	G. S. J.	939·01	·36868	·36866	+·00002	·36867	
,, ,,	15 14	2·7108	1·35	30·2	,,	7·488	86·90	26 37 51		10 50 5	30·3	7·935	86·85	G. S. J.	938·43	·36823	·36819	+·00004	·36821	
,, 19	12 27	2·7063	1·36	29·0	+0·3	9·762	86·90	26 35 44		10 49 5	29·0	9·800	86·97	G. S. J.	938·77	·36908	·36909	−·00001	·36908	·368437
,, ,,	15 14	2·7118	1·37	29·6	,,	6·192	87·00	26 38 55		10 50 20	29·5	8·112	87·00	G. S. J.	938·02	·36800	·36800	·00000	·36800	
,, 26	12 27	2·7085	1·36	29·4	+0·4	8·190	86·95	26 38 32		10 50 14	29·8	8·053	86·95	G. S. J.	939·07	·36844	·36843	+·00001	·36843	
,, ,,	15 13	2·7104	1·36	30·0	,,	7·191	87·00	26 39 10		10 50 26	30·0	7·766	86·97	G. S. J.	938·77	·36815	·36815	·00000	·36815	
Nov. 2	12 29	2·7083	1·36	30·0	0·0	8·753	87·10	26 36 38		10 49 32	30·3	8·632	87·10	G. S. J.	938·88	·36868	·36866	+·00002	·36867	
,, ,,	15 14	2·7113	1·37	30·6	,,	6·885	87·15	26 39 20		10 50 28	30·7	7·197	87·15	G. S. J.	938·77	·36800	·36800	·00000	·36800	
,, 9	12 32	2·7067	1·36	27·7	+0·2	8·691	86·95	26 39 30		10 50 31	27·6	8·511	86·95	G. S. J.	939·05	·36864	·36865	−·00001	·36864	
,, ,,	14 57	2·7073	1·36	27·8	,,	8·211	87·02	26 39 52		10 50 39	27·9	8·231	87·00	G. S. J.	939·03	·36850	·36851	−·00001	·36850	
,, 16	12 23	2·7073	1·36	27·8	+0·5	8·380	86·50	26 40 5		10 50 49	27·4	8·231	86·50	G. S. J.	939·01	·36852	·36851	+·00001	·36851	
,, ,,	14 48	2·7082	1·36	27·9	,,	7·957	86·50	26 40 5		10 50 52	27·9	7·978	86·50	G. S. J.	938·86	·36837	·36834	+·00003	·36835	·368439
,, 23	12 20	2·7069	1·30	27·1	+0·6	8·902	85·65	26 39 20		10 50 26	27·6	8·691	85·70	G. S. J.	938·79	·36858	·36860	−·00002	·36859	
,, ,,	15 17	2·7081	1·36	28·4	,,	7·951	85·75	26 40 1		10 50 47	28·1	8·056	85·75	G. S. J.	939·03	·36841	·36840	+·00001	·36840	
,, 29	14 0	2·7062	1·37	26·1	+0·8	8·235	84·95	26 41 19		10 51 10	26·6	8·105	84·95	G. S. J.	939·12	·36847	·36849	−·00002	·36848	
,, ,,	15 30	2·7081	1·36	26·7	,,	7·692	84·95	26 41 20		10 51 18	26·7	7·922	84·95	G. S. J.	938·69	·36826	·36824	+·00002	·36825	
Dec. 7	12 26	2·7065	1·36	26·9	+0·9	8·517	84·20	26 40 20		10 50 54	27·0	8·356	84·22	G. S. J.	939·05	·36856	·36856	·00000	·36856	
,, ,,	15 13	2·7076	1·37	27·9	,,	8·147	84·30	26 40 2		10 50 51	27·5	8·267	84·30	G. S. J.	938·97	·36849	·36846	+·00003	·36847	
,, 14	12 30	2·7068	1·34	27·6	+0·7	8·483	83·90	26 39 23		10 50 30	27·8	8·451	83·90	G. S. J.	939·03	·36860	·36861	−·00001	·36860	
,, ,,	15 16	2·7087	1·37	28·2	,,	8·186	83·90	26 39 35		10 50 36	28·0	8·277	83·90	G. S. J.	938·60	·36837	·36837	·00000	·36837	
,, 21	12 20	2·7055	1·35	25·9	+0·5	8·597	83·55	26 41 8		10 51 6	26·0	8·408	83·50	G. S. J.	939·14	·36861	·36864	−·00003	·36862	·368461
,, ,,	15 14	2·7068	1·37	26·9	,,	8·363	83·50	26 41 6		10 51 6	26·6	8·261	83·50	G. S. J.	939·01	·36848	·36849	−·00001	·36848	
,, 29	12 10	2·7069	1·36	26·2	+0·5	8·070	83·15	26 41 20		10 51 10	26·5	8·101	83·15	G. S. J.	938·90	·36838	·36841	−·00003	·36839	
,, ,,	15 15	2·7084	1·36	27·2	,,	7·578	83·20	26 41 33		10 51 24	27·0	7·785	83·20	G. S. J.	938·81	·36821	·36819	+·00002	·36820	

The mean * observed value of the Horizontal Force for the year 1910 = 0·368512

* The monthly and annual means corrected for diurnal variation appear in table VIII.

† Re-adjustment of H. F. Magnetograph.

Absolute Magnetical Observations, Alibag—Table Ib.

Observations of Vibration and Deflection, taken with the Magnetometer No. 3 (Cambridge Scientific Instrument Co.) for the determination of Absolute Horizontal Force.

1910.

1910. Date.	Civil Time, Mean.	Vibration Magnet. Time of one Vibration.	Effect of 90° Torsion.	Temperature.	Rate of Chronometer.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Angle of Deflection. Distance. 23 cms.	30 cms.	Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Thermometer.	Observer.	Calculated Results in C. G. S. Unit. Values of m.	Values of H. From Deflection at distance. 23 cms. (H_{23}).	30 cms. (H_{30}).	Difference. $H_{23} - H_{30}$.	Mean. $\frac{H_{23}+H_{30}}{2}$.	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	mm.		′ ″	′ ″		mm.								
JAN. 3	12 44	2·8087	2·10	20·4	+0·4	58·0	83·40	23 51 17	10 30 46	25·9	58·0	83·42	G. S. J.	917·02	0·36852	0·36851	+ ·00001	0·36851	
,, ,,	15 16	2·8691	2·17	26·7	,,	56·2	83·45	23 51 35	10 30 42	26·0	57·0	83·45	G. S. J.	917·13	·36839	·36844	− ·00005	·36841	
,, 10	13 2	2·8681	1·88	26·5	+0·2	58·5	83·20	23 51 25	10 30 52	25·9	57·1	83·22	G. S. J.	917·34	·36861	·36860	+ ·00001	·36860	
,, ,,	15 0	2·8680	1·86	26·1	,,	55·1	83·25	23 51 35	10 30 55	26·1	55·9	83·25	G. S. J.	917·19	·36847	·36840	+ ·00001	·36846	
,, 17	12 36	2·8061	1·90	24·0	+0·1	63·3	82·40	23 51 46	10 30 58	23·8	63·7	82·40	G. S. J.	917·06	·36880	·36880	·00000	·36880	
,, ,,	14 43	2·8062	2·04	24·1	,,	63·0	82·40	23 52 2	10 31 2	23·8	63·7	82·40	G. S. J.	917·09	·36875	·36876	− ·00001	·36875	·368403
,, 24	12 27	2·8094	1·95	25·8	+0·1	47·0	81·65	23 53 13	10 31 40	26·0	45·7	81·65	G. S. J.	917·34	·36815	·36812	+ ·00003	·36813	
,, ,,	15 15	2·8700	2·19	26·2	,,	46·4	81·72	23 53 11	10 31 39	26·2	46·7	81·70	G. S. J.	917·23	·36808	·36804	+ ·00004	·36806	
,, 31	12 34	2·8685	1·99	27·3	−0·1	61·0	81·60	23 49 57	10 30 11	27·1	59·8	81·60	G. S. J.	917·17	·36870	·36870	·00000	·36870	
,, ,,	15 15	2·8696	1·91	27·0	,,	55·5	81·65	23 50 22	10 30 22	27·3	57·4	81·65	G. S. J.	917·00	·36851	·36852	− ·00001	·36851	
FEB. 7	12 36	2·8684	2·13	27·1	−0·1	58·4	82·10	23 49 16	10 29 55	28·1	57·7	82·10	G. S. J.	917·15	·36867	·36860	+ ·00001	·36866	
,, ,,	15 16	2·8699	2·11	28·4	,,	56·6	82·10	23 49 28	10 29 55	28·4	57·5	82·10	G. S. J.	917·02	·36854	·36855	− ·00001	·36854	
,, 14	12 42	2·8072	2·00	26·5	0·0	65·2	82·40	23 49 32	10 30 1	26·1	65·2	82·40	G. S. J.	917·04	·36892	·36893	− ·00001	·36892	
,, ,,	15 17	2·8675	1·97	26·4	,,	62·7	82·40	23 48 47	10 29 48	26·4	67·7	82·40	G. S. J.	916·81	·36895	·36892	+ ·00003	·36893	
,, 21	12 30	2·8677	2·07	26·3	−0·1	59·7	81·90	23 51 53	10 30 44	26·8	59·7	81·90	G. S. J.	917·01	·36850	·36858	− ·00008	·36854	·368617
,, ,,	15 16	2·8700	1·93	26·8	,,	47·2	82·02	23 52 15	10 31 8	26·6	47·3	82·06	G. S. J.	917·17	·36823	·36824	− ·00001	·36823	
,, 28	12 22	2·8681	2·04	26·6	+0·1	58·3	82·15	23 50 35	10 30 21	26·5	57·7	82·15	G. S. J.	917·17	·36866	·36870	− ·00004	·36868	
,, ,,	15 17	2·8696	1·93	26·8	,,	53·0	82·25	23 50 39	10 30 33	26·8	54·3	82·20	G. S. J.	916·87	·36845	·36843	+·00002	·36844	
MAR. 7	12 51	2·8681	1·98	26·7	+0·3	58·6	82·10	23 51 0	10 30 32	26·8	55·3	82·10	G. S. J.	917·40	·36860	·36862	− ·00002	·36861	
,, ,,	14 58	2·8693	2·05	26·7	,,	49·6	82·12	23 51 54	10 30 56	26·7	50·8	82·10	G. S. J.	917·23	·36832	·36835	− ·00003	·36833	
,, 14	12 35	2·8682	2·05	28·2	−0·4	60·1	82·52	23 49 22	10 30 0	27·5	57·8	82·55	G. S. J.	917·36	·36883	·36882	+ ·00001	·36882	
,, ,,	15 18	2·8699	2·00	28·1	,,	53·2	82·60	23 50 5	10 30 6	27·8	54·6	82·60	G. S. J.	917·02	·36849	·36854	− ·00005	·36851	
,, 21	12 35	2·8708	1·90	29·7	−0·1	54·2	83·50	23 48 20	10 29 36	29·2	53·3	83·50	G. S. J.	916·98	·36862	·36860	+ ·00002	·36861	·368366
,, ,,	15 16	2·8712	2·00	29·1	,,	48·3	83·50	23 49 12	10 29 52	29·1	50·2	83·50	G. S. J.	916·90	·36841	·36842	− ·00001	·36841	
,, 29	12 34	2·8720	1·95	29·9	0·0	41·9	84·55	23 51 37	10 30 54	28·8	35·9	84·57	G. S. J.	917·51	·36812	·36811	+ ·00001	·36811	
,, ,,	15 17	2·8749	1·94	29·3	,,	27·1	84·62	23 52 47	10 31 22	29·0	28·2	84·60	G. S. J.	916·83	·36753	·36754	− ·00001	·36753	

1910. Date,	Civil Time, Mean.	Vibration Magnet. Time of one Vibration.	Vibration Magnet. Effect of 90° Torsion.	Temperature.	Rate of Chronometer,	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Corresponding Mean Reading of H. F. Magnetograph. Thermometer.	Angle of Deflection. Distance. 23 cms.	Angle of Deflection. Distance. 30 cms.	Corresponding Mean Reading of H. F. Magnetograph. Temperature.	Corresponding Mean Reading of H. F. Magnetograph. Scale Reading.	Corresponding Mean Reading of H. F. Magnetograph. Thermometer.	Observer.	Calculated Results in C. G. S. Unit. Values of H. Values of m.	Values of H. From Deflection at distance. 23 cms. (H_{23}).	Values of H. From Deflection at distance. 30 cms. (H_{30}).	Values of H. Difference. $H_{23} - H_{30}$.	Values of H. Mean. $\frac{H_{23}+H_{30}}{2}$.	Observed Monthly Mean Values of H.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	H. m.	S.	Sc. div.	°	S.	mm.		° ′ ″	° ′ ″	°	mm.	°							
April 4	12 36	2·8704	2·18	29·2	−0·1	48·3	85·45	23 50 27	10 30 21	28·8	44·0	85·45	G. S. J.	917·44	0·36839	0·36840	−·00001	0·36839	
,, ,,	15 19	2·8733	1·96	29·6	,,	35·9	85·50	23 51 35	10 31 0	29·0	35·6	85·45	G. S. J.	917·09	·36791	·36787	+·00004	·36789	
,, 11	12 14	2·8691	2·00	30·4	+0·2	58·2	86·30	23 47 10	10 29 6	29·3	55·8	86·30	G. S. J.	917·30	·36902	·36899	+·00003	·36900	
,, ,,	14 53	2·8707	1·97	29·7	,,	49·7	86·30	23 48 3	10 29 23	29·6	51·6	86·30	G. S. J.	916·94	·36862	·36862	·00000	·36862	
,, 19	12 21	2·8705	1·89	29·6	+0·2	47·9	86·90	23 49 45	10 30 7	28·7	45·2	86·90	G. S. J.	917·34	·36852	·36852	·00000	·36852	·368495
,, ,,	15 16	2·8717	1·93	28·9	,,	41·9	86·90	23 50 16	10 30 1	28·7	42·4	86·90	G. S. J.	916·83	·36824	·36833	−·00009	·36828	
,, 25	12 42	2·8699	1·99	29·8	+0·2	51·3	87·40	23 49 7	10 29 43	28·6	49·4	87·40	G. S. J.	917·28	·36869	·36872	−·00003	·36870	
,, ,,	15 18	2·8710	1·98	29·8	,,	46·0	87·40	23 48 32	10 29 38	29·2	47·5	87·40	G. S. J.	916·96	·36857	·36856	+·00001	·36856	
May 2	12 21	2·8719	1·97	30·4	+0·1	43·8	87·80	23 48 44	10 29 45	29·7	43·0	87·80	G. S. J.	916·98	·36843	·36842	+·00001	·36842	
,, ,,	15 16	2·8718	1·99	29·3	,,	41·4	87·80	23 49 16	10 29 55	29·4	41·3	87·80	G. S. J.	916·87	·36832	·36832	·00000	·36832	
,, 10	12 17	2·8706	0·73	28·9	+0·5	48·1	88·50	23 47 30	10 29 50	29·7	46·9	88·50	W. V. N.	917·13	·36871	·36851	+·00020	·36861	
,, ,,	14 33	2·8716	0·77	29·9	,,	44·1	88·50	23 47 43	10 29 32	29·9	46·0	88·50	W. V. N	916·98	·36862	·36854	+·00008	·36858	
,, 16	12 32	2·8716	1·87	30·9	+0·5	46·5	89·05	23 47 30	10 29 8	30·8	45·3	89·05	G. S. J.	91·04	·36857	·36859	−·00002	·36858	
,, ,,	15 17	2·8726	1·88	30·3	,,	37·4	89·00	23 48 37	10 29 39	30·4	38·6	89·00	G. S. J.	916·83	·36828	·36828	·00000	·36828	·368525
,, 23	13 17	2·8708	1·89	31·0	+0·4	49·6	89·55	23 46 41	10 28 52	30·9	47·7	89·55	G. S. J.	917·11	·36878	·36877	+·00001	·36877	
,, ,,	15 2	2·8714	1·95	31·3	,,	45·1	89·55	23 46 32	10 28 45	31·1	46·6	89·55	G. S. J.	916·96	·36872	·36872	·00000	·36872	
,, 30	12 26	2·8724	1·93	32·4	+0·4	44·1	90·30	23 46 18	10 28 44	32·0	43·4	90·30	G. S. J.	917·06	·36864	·36861	+·00003	·36862	
,, ,,	15 16	2·8736	2·03	31·8	,,	37·6	90·30	23 47 1	10 28 59	31·8	39·5	90·30	G. S. J.	916·66	·36835	·36835	·00000	·36835	
June 6	12 15	2·8687	2·01	28·7	+0·8	†97·5	90·60	23 47 37	10 29 14	28·8	†94·8	90·60	G. S. J.	917·06	·36892	·36891	+·00001	·36891	
,, ,,	15 15	2·8703	1·87	28·7	,,	89·1	90·60	23 48 32	10 29 37	28·7	90·2	90·60	G. S. J.	916·83	·36861	·36861	·00000	·36861	
,, 13	13 0	2·8696	2·04	28·8	+0·5	94·1	90·55	23 47 51	10 29 20	28·7	93·8	90·57	G. S. J.	916·85	·36878	·36878	·00000	·36878	
,, ,,	15 16	2·8710	2·09	28·7	,,	84·8	90·55	23 48 44	10 29 41	28·4	90·1	90·60	G. S. J.	916·58	·36852	·36852	·00000	·36852	
,, 20	12 21	2·8719	1·80	30·2	+0·4	88·5	89·95	23 48 29	10 29 29	29·4	89·2	89·95	G. S. J.	916·77	·36849	·36851	−·00002	·36850	·368651
,, ,,	15 14	2·8712	1·86	29·3	,,	87·1	89·00	23 48 25	10 29 29	29·3	88·7	89·90	G. S. J.	916·75	·36831	·36854	−·00003	·36852	
,, 27	12 36	2·8686	1·96	26·9	+0·5	95·7	88·80	23 49 19	10 30 9	26·6	95·5	88·80	G. S. J.	916·83	·36877	·36870	+·00007	·36873	
,, ,,	15 17	2·8590	1·84	26·5	,,	89·0	88·65	23 49 45	10 30 13	26·3	92·0	88·70	G. S. J.	916·66	·36866	·36863	+·00003	·36864	
July 4	12 13	2·8690	1·74	27·9	+0·4	96·8	87·25	23 48 10	10 29 37	27·9	95·7	87·25	G. S. J.	916·87	·36883	·36879	+·00004	·36881	
,, ,,	15 16	2·8700	1·78	27·9	,,	90·0	87·25	23 49 5	10 29 41	27·8	92·0	87·25	G. S. J.	916·71	·36860	·36865	−·00005	·36862	
,, 11	12 18	2·8708	1·77	29·4	+0·1	91·4	86·90	23 48 27	10 29 36	28·8	91·0	86·90	G. S. J.	916·85	·36862	·36861	+·00001	·36861	
,, ,,	15 16	2·8707	1·77	29·0	,,	91·0	86·85	23 48 15	10 29 28	28·9	91·2	86·85	G. S. J.	916·75	·36861	·36861	·00000	·36861	
,, 18	13 15	2·8712	1·18	30·1	+0·3	95·1	87·15	23 46 50	10 28 54	29·9	94·3	87·15	G. S. J.	916·73	·36877	·36876	+·00001	·36876	·368677
,, ,,	15 0	2·8714	1·21	30·1	,,	91·0	87·15	23 46 45	10 28 55	30·1	92·9	87·15	G. S. J.	916·68	·36873	·36871	+·00002	·36872	
,, 25	12 21	2·8703	1·24	29·2	+0·1	94·2	87·80	23 48 7	10 29 21	29·0	92·1	87·80	G. S. J.	916·96	·36871	·36874	−·00003	·36872	
,, ,,	14 58	2·8714	1·21	29·3	,,	88·8	87·80	23 48 4	10 29 30	29·1	89·5	87·80	G. S. J.	916·71	·36859	·36856	+·00003	·36857	

†H. F. Instrument was readjusted on 31st May.

Aug.	1	12	27	2·8682	1·27	26·9	+0·4	97·6	87·32	23	48	19	10	29	35	27·1	97·2	87·30	G. S. J.	916·83	·36894	·36892	+·00002	·36893	
"	"	15	13	2·8693	1·29	27·4	"	93·4	87·30	23	48	35	10	29	36	26·9	95·3	87·30	G. S. J.	916·58	·36882	·36882	·00000	·36882	
"	8	12	17	2·8684	1·28	27·0	+0·3	97·1	86·10	23	48	7	10	29	25	26·8	99·4	86·10	G. S. J.	916·62	·36897	·36897	·00000	·36897	
"	"	15	15	2·8691	1·29	26·7	"	92·6	86·02	23	49	0	10	30	1	26·5	95·5	86·07	G. S. J.	916·60	·36877	·36871	+·00006	·36874	
"	15	12	38	2·8698	1·30	27·3	+0·2	92·2	85·30	23	49	34	10	29	57	27·4	91·4	85·30	G. S. J.	916·79	·36859	·36861	−·00002	·36860	
"	"	15	14	2·8709	1·29	27·5	"	89·9	85·30	23	50	2	10	30	15	27·3	88·3	85·30	G. S. J.	916·60	·36841	·36841	·00000	·36841	·368407
"	22	12	53	2·8731	1·33	28·0	+0·2	74·4	85·90	23	52	14	10	31	8	28·4	70·7	85·90	G. S. J.	916·92	·36782	·36782	·00000	·36782	
"	"	15	14	2·8766	1·33	27·8	"	53·0	85·90	23	54	41	10	32	12	28·3	57·5	85·90	G. S. J.	916·49	·36706	·36705	−·00001	·36705	
"	29	12	29	2·8708	1·33	28·2	+0·5	85·2	86·15	23	49	12	10	29	53	28·3	85·1	86·15	G. S. J.	916·77	·36850	·36850	·00000	·36850	
"	"	15	18	2·8720	1·67	28·6	"	78·6	86·15	23	49	58	10	30	16	28·6	79·2	86·15	G. S. J.	916·75	·36824	·36822	+·00002	·36823	
Sept.	5	12	33	2·8693	1·61	28·4	−0·1	92·3	86·15	23	48	7	10	29	27	28·0	92·1	86·15	G. S. J.	916·66	·36877	·36876	+·00001	·36876	
"	"	14	51	2·8705	1·70	28·5	"	88·2	86·15	23	48	49	10	29	45	28·2	88·8	86·15	G. S. J.	916·73	·36859	·36859	·00000	·36859	
"	12	12	48	2·8702	1·53	28·8	+0·2	90·0	86·45	23	48	32	10	29	37	28·7	88·5	86·45	G. S. J.	916·96	·36866	·36865	+·00001	·36865	
"	"	14	38	2·8712	1·53	28·7	"	86·5	86·45	23	48	45	10	29	46	28·6	87·1	86·45	G. S. J.	916·68	·36850	·36849	+·00001	·36849	
"	19	12	25	2·8684	1·57	26·8	−0·5	93·1	86·75	23	49	38	10	30	9	25·9	92·7	86·75	G. S. J.	916·83	·36883	·36881	+·00002	·36882	·368630
"	"	15	15	2·8634	1·55	26·9	"	88·0	80·75	23	49	33	16	29	56	26·8	87·4	86·75	G. S. J.	916·64	·36865	·36867	−·00002	·36866	
"	26	12	58	2·8639	1·59	28·3	+0·4	90·1	86·70	23	48	42	10	29	41	28·0	88·1	86·70	G. S. J.	916·81	·36869	·36868	+·00001	·36868	
"	"	15	17	2·8715	1·53	28·2	"	80·8	86·70	23	49	10	10	29	51	28·4	84·2	86·70	G. S. J.	916·52	·36839	·36840	−·00001	·36839	
Oct.	3	12	39	2·8701	1·59	27·7	+0·3	89·8	86·35	23	49	10	10	29	53	27·8	86·4	86·35	G. S. J.	916·73	·36857	·36857	·00000	·36857	
"	"	15	16	2·8712	1·57	28·0	"	82·6	86·35	23	49	28	10	30	5	27·8	84·0	86·35	G. S. J.	916·58	·36843	·36840	+·00003	·36841	
"	11	12	35	2·8692	1·60	28·7	+0·2	94·0	87·70	23	47	50	10	29	21	28·3	91·5	86·07	G. S. J.	916·94	·36890	·36888	+·00002	·36889	
"	"	15	15	2·8712	1·60	28·7	"	82·3	87·10	23	48	51	10	29	50	28·6	83·0	86·02	G. S. J.	916·75	·36849	·36843	+·00006	·36846	
"	17	12	26	2·8707	1·66	29·9	+0·5	90·9	87·95	23	47	57	10	30	19	28·7	89·4	86·05	G. S. J.	916·81	·36875	·36876	−·00001	·36875	·368514
"	"	15	14	2·8715	1·64	29·5	"	84·5	87·00	23	48	5	10	29	28	29·4	85·5	87·00	G. S. J.	916·71	·36853	·36852	+·00001	·36852	
"	24	12	33	2·8708	1·72	28·8	+0·3	81·5	87·70	23	48	50	10	29	47	29·1	80·6	86·70	G. S. J.	916·94	·36850	·36849	+·00001	·36840	
"	"	15	13	2·8718	1·78	28·7	"	76·9	86·77	23	49	40	10	30	6	28·9	75·7	86·75	G. S. J.	916·79	·36827	·36826	+·00001	·36826	
"	31	13	23	2·8719	1·93	30·5	−0·1	84·3	87·15	23	48	2	10	29	26	30·0	82·5	87·15	G. S. J.	916·85	·36850	·36849	+·00001	·36849	
"	"	15	17	2·8729	2·00	30·0	"	77·3	87·20	23	48	25	10	29	32	29·8	79·8	87·15	G. S. J.	916·47	·36830	·36831	−·00001	·36830	
Nov.	7	12	48	2·8693	1·50	28·7	+0·2	90·8	86·80	23	48	41	10	29	42	27·8	86·0	86·80	G. S. J.	917·06	·36882	·36882	·00000	·36882	
"	"	14	58	2·8709	1·62	28·4	"	82·1	86·85	23	48	47	10	29	47	27·8	84·9	86·80	G. S. J.	916·52	·36857	·36855	+·00002	·36856	
"	14	12	43	2·8687	1·77	28·4	0·3	93·2	86·70	23	47	59	10	29	14	27·9	91·1	86·70	G. S. J.	916·90	·36894	·36898	−·00004	·36896	
"	"	15	14	2·8692	1·70	28·1	"	90·1	86·70	23	48	14	10	29	22	28·0	89·3	86·70	G. S. J.	916·74	·36881	·36884	−·00003	·36882	
"	21	12	36	2·8707	1·93	28·1	0·6	82·5	86·10	23	48	47	10	29	42	28·4	82·9	86·10	G. S. J.	916·56	·36850	·36850	·00000	·36850	·368071
"	"	15	14	2·8712	1·98	28·7	"	82·1	86·10	23	48	58	10	29	40	28·6	82·3	86·10	G. S. J.	916·62	·36845	·36849	−·00004	·36847	
"	28	13	3	2·8686	1·69	26·7	+0·7	87·7	85·05	23	50	21	10	30	16	26·4	86·5	85·05	G. S. J.	916·98	·36866	·36869	−·00003	·36867	
"	"	15	10	2·8694	1·65	26·7	"	84·5	85·07	23	50	4	10	30	10	26·8	84·9	85·05	G. S. J.	916·75	·36856	·36858	−·00002	·36857	
Dec.	5	12	32	2·8687	1·63	26·8	+1·0	89·7	84·35	23	49	22	10	29	53	26·8	88·0	84·35	G. S. J.	916·79	·36875	·36877	−·00002	·36876	
"	"	15	15	2·8701	1·64	27·1	"	84·0	84·40	23	49	49	10	30	8	27·1	84·5	84·40	G. S. J.	916·62	·36851	·36851	·00000	·36851	
"	12	12	48	2·8688	1·62	26·9	+0·5	91·1	83·90	23	48	51	10	29	40	27·6	90·0	83·90	G. S. J.	916·81	·36873	·36875	−·00002	·36874	
"	"	15	15	2·8695	1·63	27·0	"	88·1	83·95	23	49	5	10	29	55	27·1	88·2	83·90	G. S. J.	916·60	·36866	·36864	+·00002	·36865	
"	19	12	42	2·8681	1·54	25·7	+0·6	88·9	83·55	23	50	41	10	30	32	25·3	87·6	83·60	G. S. J.	916·87	·36871	·36870	+·00001	·36870	·368586
"	"	15	17	2·8693	1·56	25·4	"	81·6	83·60	23	50	56	10	30	45	25·3	84·0	83·60	G. S. J.	916·52	·36849	·36845	+·00004	·36847	
"	26	12	31	2·8697	1·59	26·8	+0·6	82·1	83·30	23	50	46	10	30	31	26·8	80·6	83·30	G. S. J.	916·92	·36845	·36845	·00000	·36845	
"	"	15	18	2·8706	1·60	27·1	"	81·1	83·35	23	50	5	10	30	17	27·1	80·7	83·35	G. S. J.	916·56	·36842	·36840	+·00002	·36841	

The mean observed value of the Horizontal Force for the year 1910 = 0·368553

Absolute Magnetical Observations, Alibag—Table IIa.

OBSERVATIONS OF ABSOLUTE DECLINATION, 1910.

Taken with Magnetometer No. 7 (T. Cooke and Sons).

19.0. Date.	Alibag Civil Time.	Mean Readings. Collimator Magnet. Scale apparently Erect.	Inverted.	Horizontal Circle with Telescope pointed to Scale of Collimator Magnet.	Kennery Light-house.	Torsion. Mean.	Effect of 90°.	Observer.	Corresponding ordinate of Declination Magnetograms.	Absolute Easterly Declination corrected for Torsion.	Monthly Mean. Corresponding ordinate of Declination Magnetograms.	Observed absolute Easterly Declination
1	2	3	4	5	6	7	8	9	10	11	12	13
	H. m.	Sc. div.	Sc. div.	° ′ ″	° ′ ″	°	Sc. div.		cms.	° ′ ″	cms.	° ′ ″
JAN. 6	12 6	55·6	...	85 29 10	222 23 20	0	...	G. S. J.	6·120	0 59 15		
,, 13	12 1	55·6	...	85 29 30	222 23 10	0	...	G. S. J.	6·145	0 59 45	6·134	0 59 31
,, 20	11 50	55·6	...	85 28 40	222 23 5	0	...	G. S. J.	6·085	0 59 0		
,, 27	11 47	55·6	...	85 29 45	222 23 5	0	...	G. S. J.	6·187	1 0 5		
FEB. 3	11 54	55·6	...	85 27 15	222 23 10	0	...	G. S. J.	5·935	0 57 30		
,, 10	13 7	55·6	...	85 28 10	222 23 0	0	...	G. S. J.	6·061	0 58 35	6·008	0 58 12
,, 17	11 49	55·6	...	85 27 5	222 23 0	0	...	G. S. J.	5·935	0 57 30		
,, 24	11 49	55·6	...	85 28 40	222 22 50	0	...	G. S. J.	6·100	0 59 15		
MARCH 3	11 51	55·6	...	85 27 15	222 22 20	0	...	G. S. J.	5·985	0 58 10		
,, 10	11 46	55·6	...	85 26 25	222 22 35	0	...	G. S. J.	5·912	0 57 15	5·953	0 57 49
,, 17	11 54	55·6	...	85 27 25	222 22 45	0	...	G. S. J.	5·982	0 58 5		
,, 24	11 56	55·6	...	85 27 0	222 22 40	0	...	G. S. J.	5·935	0 57 45		
APRIL 1	11 11	55·6	...	85 28 50	222 22 50	0	...	G. S. J.	6·105	0 59 25		
,, 7	11 49	55·6	...	85 26 0	222 22 55	0	...	G. S. J.	5·835	0 56 30		
,, 14	11 59	55·6	...	85 27 15	222 23 0	0	...	G. S. J.	5·945	0 57 40	5·899	0 57 8
,, 22	12 8	55·6	...	85 25 30	222 23 5	0	...	G. S. J.	5·772	0 55 50		
,, 28	11 43	55·6	...	85 26 5	222 23 15	0	...	G. S. J.	5·840	0 56 15		
MAY 5	12 8	55·6	...	85 26 20	222 23 30	0	...	G. S. J.	5·852	0 56 15		
,, 13	11 46	55·6	...	85 26 10	222 23 5	0	...	G. S. J.	5·872	0 56 30	5·873	0 56 26
,, 19	11 40	55·6	...	85 26 10	222 23 5	0	...	G. S. J.	5·895	0 56 30		
,, 26	11 56	55·6	...	85 26 0	222 22 55	0	...	G. S. J.	5·872	0 56 30		
JUNE 2	11 57	55·6	...	85 25 30	222 23 20	0	...	G. S. J.	5·800	0 55 35		
,, 9	11 52	55·6	...	85 25 35	222 23 0	0	...	G. S. J.	5·842	0 56 0		
,, 16	11 51	55·6	...	85 24 35	222 22 55	0	...	G. S. J.	5·735	0 55 5	5·805	0 55 45
,, 23	11 52	55·6	...	85 25 30	222 23 0	0	...	G. S. J.	5·825	0 55 55		
,, 30	11 49	55·6	...	85 25 45	222 23 0	0	...	G. S. J.	5·825	0 56 10		
JULY 7	11 43	55·6	...	85 24 50	222 23 5	0	...	G. S. J.	5·730	0 55 10		
,, 14	11 47	55·6	...	85 26 20	222 23 10	0	...	G. S. J.	5·842	0 56 35	5·733	0 55 17
,, 21	11 47	55·6	...	85 23 35	222 23 10	0	...	G. S. J.	5·600	0 53 50		
,, 28	11 40	55·6	...	85 25 10	222 23 0	0	...	G. S. J.	5·760	0 55 35		
AUG. 5	11 48	55·6	...	85 24 35	222 23 0	0	...	G. S. J.	5·710	0 55 0		
,, 11	11 28	55·6	...	85 25 40	222 23 5	0	...	G. S. J.	5·785	0 56 0	5·672	0 54 40
,, 18	11 55	55·6	...	85 22 50	222 23 10	0	...	G. S. J.	5·525	0 53 5		
,, 25	41 42	55·6	...	85 24 30	222 23 20	0	...	G. S. J.	5·670	0 54 35		
SEPT. 1	11 55	55·6	...	85 22 30	222 23 20	0	...	G. S. J.	5·450	0 52 35		
,, 9	11 58	55·6	...	85 24 5	222 23 35	0	...	G. S. J.	5·615	0 53 55		
,, 15	12 12	55·6	...	85 23 30	222 23 20	0	...	G. S. J.	5·575	0 53 35	5·596	0 53 51
,, 22	11 51	55·6	...	85 23 35	222 23 25	0	...	G. S. J.	5·580	0 53 35		
,, 29	12 3	55·6	...	85 25 50	222 23 40	0	...	G. S. J.	5·760	0 55 35		
OCT. 6	11 50	55·6	...	85 26 0	222 23 45	0	...	G. S. J.	5·755	0 55 40		
,, 14	11 51	55·6	...	85 26 15	222 23 50	0	...	G. S. J.	5·785	0 55 50	5·780	0 55 39
,, 20	11 52	55·6	...	85 26 0	222 23 55	0	...	G. S. J.	5·775	0 55 30		
,, 27	12 15	55·6	...	85 26 5	222 23 55	0	...	G. S. J.	5·805	0 55 35		
NOV. 3	12 1	55·6	...	85 26 30	222 23 50	0	...	G. S. J.	5·840	0 56 5		
,, 10	11 59	55·6	...	85 27 0	222 23 45	0	...	G. S. J.	5·875	0 56 40	5·837	0 56 10
,, 17	11 51	55·6	...	85 26 0	222 23 55	0	...	G. S. J.	5·755	0 55 30		
,, 24	12 6	55·6	...	85 26 50	222 23 50	0	...	G. S. J.	5·880	0 56 25		
DEC. 1	11 51	55·6	...	85 26 50	222 23 30	0	...	G. S. J.	5·895	0 56 45		
,, 8	11 48	55·6	...	85 26 5	222 23 30	0	...	G. S. J.	5·820	0 56 0		
,, 15	12 1	55·6	...	85 28 0	222 23 25	0	...	G. S. J.	6·005	0 58 0	*	0 56 28
,, 22	11 5	55·6	...	85 26 0	222 23 15	0	...	G. S. J.	5·915	0 56 10		
,, 28	11 12	55·6	...	85 25 30	222 23 30	0	...	G. S. J.	5·837	0 55 25		

The mean † observed Declination for the year 1910 = 0 56 25

* Owing to a shift in the zero line of the Declination Magnetograph on the 19th December, the ordinates were permanently increased by about ·077 cms.
† The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table IIb.

OBSERVATIONS OF ABSOLUTE DECLINATION, 1910.

Taken with Magnetometer No. 3 (Cambridge Scientific Instrument Co.).

1910. Date.	Alibag Civil Time.	Mean Readings. Collimator Magnet. Scale apparently Erect.	Inverted.	Horizontal Circle with Telescope pointed to. Scale of Collimator Magnet.	Kennery Light-house.	Torsion. Mean.	Effect of 90°.	Observer.	Corresponding Reading of Declination Magnetograph.	Absolute Easterly Declination corrected for Torsion.	Monthly Mean. Corresponding Reading of declination Magnetograph.	Observed absolute Easterly Declination.
1	2	3	4	5	6	7	8	9	10	11	12	13
	H. m.	Sc. div.	Sc. div.	° ′ ″	° ′ ″	° ′	Sc. div.		mm.	° ′ ″	mm.	° ′ ″
JAN. 6	12 47	33·92	34·00	276 28 50	53 23 5	0	...	G. S. J.	61·20	0 59 5		
,, 13	12 48	33·97	33·70	276 28 20	53 22 40	0	...	G. S. J.	61·30	0 59 20	61·40	0 59 20
,, 20	12 35	33·77	33·77	276 28 50	53 23 5	0	...	G. S. J.	61·20	0 59 10		
,, 27	12 35	33·72	34·07	276 29 40	53 23 0	0	...	G. S. J.	61·90	0 59 46		
FEB. 3	12 37	33·87	33·90	276 26 35	53 23 0	0	...	G. S. J.	59·35	0 56 59		
,, 10	13 40	34·00	33·75	276 27 40	53 22 45	0	...	G. S. J.	60·90	0 58 34	60·29	0 57 55
,, 17	12 36	34·07	33·60	276 26 35	53 22 55	20E	0·72	G. S. J.	59·85	0 57 13		
,, 24	12 33	33·95	33·87	276 28 0	53 22 35	0	...	G. S. J.	61·05	0 58 55		
MARCH 3	12 39	34·07	33·32	276 25 45	53 22 35	0	...	G. S. J.	59·80	0 57 17		
,, 10	12 30	33·92	33·74	276 25 50	53 22 50	0	...	G. S. J.	58·95	0 56 35	59·44	0 57 2
,, 17	12 43	33·82	33·95	276 27 0	53 22 50	0	...	G. S. J.	59·90	0 57 28		
,, 24	12 40	33·85	33·72	276 26 20	53 23 5	0	...	G. S. J.	59·10	0 56 47		
APRIL 1	11 54	33·67	38·90	276 27 25	53 22 50	0	...	G. S. J.	60·20	0 57 47		
,, 7	12 32	34·00	33·72	276 24 40	53 22 30	0	...	G. S. J.	58·10	0 55 51		
,, 14	12 38	34·00	33·52	276 25 50	53 22 55	0	...	G. S. J.	59·10	0 56 48	58·66	0 56 6
,, 22	12 51	33·97	33·60	276 24 10	53 22 50	0	...	G. S. J.	57·95	0 55 6		
,, 28	12 27	33·95	33·87	276 24 25	53 22 55	0	...	G. S. J.	57·95	0 55 0		
MAY 5	12 56	34·00	33·80	276 25 25	53 23 10	0	...	N.	59·00	0 55 51		
,, 13	12 30	34·07	33·87	276 24 30	53 23 15	0	...	G. S. J.	58·00	0 54 51	58·56	0 55 16
,, 19	12 33	33·95	33·85	276 24 45	53 23 10	0	...	G. S. J.	58·55	0 55 6		
,, 26	12 42	33·97	33·70	276 24 45	53 23 10	0	...	G. S. J.	58·70	0 55 15		
JUNE 2	12 39	34·00	33·80	276 24 5	53 22 50	0	...	G. S. J.	58·05	0 54 51		
,, 9	13 38	34·02	33·70	276 23 55	53 22 55	0	...	G S J	58·30	0 54 43		
,, 16	13 17	33·95	33·82	276 22 30	53 22 30	0	...	G. S. J.	56·95	0 53 32	57·80	0 54 26
,, 23	12 36	33·97	33·87	276 23 0	53 22 10	0	...	G. S. J	57·80	0 54 21		
,, 30	12 46	33·97	33·85	276 23 35	53 22 25	0	...	G. S. J.	57·90	0 54 42		
JULY 7	12 54	34·00	33·80	276 23 10	53 22 35	0	...	G S J.	57·70	0 54 11		
,, 14	12 31	33·95	33·90	276 24 30	53 23 15	0	...	G S J.	58·10	0 54 42	57·37	0 53 57
,, 21	12 31	34·00	33·85	276 22 15	53 23 10	0	...	G. S. J.	56·05	0 52 38		
,, 28	12 51	34·00	33·77	276 23 50	53 23 10	0	...	G S J.	57·65	0 54 18		
AUG. 5	12 33	34·00	33·80	276 22 50	53 23 10	0	...	G. S. J.	56·80	0 53 16		
,, 11	12 6	34·00	33·90	276 23 5	53 22 55	0	...	G. S. J.	57·25	0 53 41	56·72	0 52 59
,, 18	12 45	34·00	33·62	276 21 30	53 22 55	0	...	G. S. J.	56·25	0 52 22		
,, 25	12 40	34·00	33·75	276 22 35	53 23 35	0	...	G. S. J.	56·60	0 52 39		
SEPT. 1	12 54	34·02	33·55	276 21 40	53 23 25	0	...	G S J	55·80	0 52 6		
,, 9	12 35	34·00	33·47	276 21 45	53 23 10	0	...	G. S. J.	56·05	0 52 30		
,, 15	12 44	34·07	33·25	276 21 50	53 23 35	0	...	G. S. J.	56·00	0 52 27	56·47	0 52 54
,, 22	12 31	33·97	33·75	276 22 35	53 23 25	0	...	G. S. J.	56·50	0 52 48		
,, 29	12 48	33·95	33·72	276 24 15	53 23 10	5E	0·81	G. S. J.	58·00	0 54 38		
OCT. 6	12 29	33·97	33·70	276 24 25	53 23 15	0	...	G. S. J.	58·10	0 54 50		
,, 14	13 34	33·86	33·95	276 24 40	53 23 25	0	...	G. S. J.	58·00	0 54 35	58·16	0 54 44
,, 20	12 34	33·95	33·85	276 24 35	53 23 40	0	...	G. S. J.	57·90	0 54 26		
,, 27	12 58	34·05	33·80	276 24 25	53 23 0	0	...	G. S. J.	58·65	0 55 4		
NOV. 3	12 48	34·05	33·77	276 25 30	53 23 15	0	...	G. S. J.	59·15	0 55 56		
,, 10	12 39	33·97	33·67	276 25 20	53 23 40	0	...	G. S. J.	58·70	0 55 22	58·72	0 55 26
,, 17	12 33	34·05	33·57	276 24 45	53 23 55	0	...	G. S. J.	58·05	0 54 43		
,, 24	12 49	34·05	33·72	276 25 15	53 23 20	5W	0·69	G. S. J.	59·00	0 55 42		
DEC. 1	12 37	34·10	33·20	276 25 45	53 23 15	0	...	G. S. J.	59·85	0 56 47		
,, 8	12 27	33·92	33·30	276 23 55	53 22 35	0	...	G. S. J.	58·75	0 55 21		
,, 15	12 42	33·97	33·50	276 25 40	53 23 0	0	...	G. S. J.	59·40	0 56 31	*	0 55 58
,, 22	11 41	33·95	33·42	276 24 40	53 23 5	0	...	G. S. J.	59·75	0 55 30		
,, 28	11 55	34·00	33·37	276 24 30	53 22 50	0	...	G. S. J.	60·00	0 55 41		

The mean observed Declination for the year 1910 = 0 55 30

* Owing to a shift in the zero line of the Declination Magnetograph on the 19th, the ordinates were permanently increased by about 0·77 mm.

Absolute Magnetical Observations. Alibag—Table IIIa

OBSERVATIONS OF INCLINATION, 1910.

Taken with Dip Circle No. 160 (Cambridge Scientific Instrument Co.) and two 3½-inch Needles Nos. 1 and 2 by Dover.

1910. Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A Face of Circle. East.	A Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		
JAN. 4	11 54	12 43	G. S. J.	1	23 28·1	23 38·4	23 20·8	23 31·4	23 29·7		
,, ,,	12 50	13 38	G. S. J.	2	23 24·6	23 35·1	23 18·4	23 31·3	23 27·3		
,, 7	13 52	14 43	G. S. J.	1	23 30·5	23 43·5	23 19·7	23 33·4	23 31·8	No. 1	
,, ,,	14 50	15 36	G. S. J.	2	23 26·9	23 38·5	23 28·6	23 35·9	23 32·5	° ′	
,, 11	11 48	12 41	G. S. J.	1	23 33·6	23 45·6	23 17·1	23 30·7	23 31·7	23 31·6	
,, ,,	12 49	13 38	G. S. J.	2	23 26·3	23 40·2	23 21·7	23 35·6	23 30·9		
,, 14	13 54	14 45	G. S. J.	1	23 31·0	23 43·4	23 19·5	23 33·9	23 31·9		
,, 14	52	15 39	G. S. J.	2	23 28·7	23 40·7	23 23·6	23 35·7	23 32·2		23 31·5
,, 18	11 49	12 41	G. S. J.	1	23 33·2	23 44·4	23 19·7	23 30·6	23 31·2		
,, ,,	12 48	13 38	G. S. J.	2	23 24·2	23 38·6	23 22·0	23 33·9	23 29·7		
,, 21	13 51	14 43	G. S. J.	1	23 30·6	23 40·9	23 19·4	23 34·7	23 31·4	No. 2	
,, ,,	14 50	15 36	G. S. J.	2	23 28·7	23 41·6	23 23·3	23 36·6	23 32·5	° ′	
,, 25	11 42	12 33	G. S. J.	1	23 32·6	23 43·6	23 20·4	23 33·4	23 32·5	23 31·3	
,, ,,	12 39	13 28	G. S. J.	2	23 27·7	23 45·2	23 24·8	23 40·5	23 34·5		
,, 28	13 53	14 48	G. S. J.	1	23 32·4	23 45·7	23 20·6	23 31·1	23 32·4		
,, ,,	14 56	15 46	G. S. J.	2	23 24·6	23 41·0	23 21·2	23 38·2	23 31·2		
FEB. 1	12 0	12 57	G. S. J.	1	23 31·0	23 42·1	23 18·9	23 29·9	23 30·5		
,, ,,	13 4	13 55	G. S. J.	2	23 24·7	23 41·8	23 21·0	23 35·0	23 30·6		
,, 4	13 40	14 32	G. S. J.	1	23 36·9	23 47·1	23 22·0	23 32·1	23 34·5	No. 1	
,, ,,	14 40	15 30	G. S. J.	2	23 33·5	23 42·1	23 25·9	23 37·6	23 32·3	° ′	
,, 8	12 2	12 53	G. S. J.	1	23 31·9	23 40·6	23 25·6	23 30·5	23 32·6	23 32·8	
,, ,,	13 0	13 51	G. S. J.	2	23 28·2	23 39·6	23 28·6	23 36·4	23 33·2		
,, 11	13 55	14 48	G. S. J.	1	23 33·6	23 46·6	23 22·5	23 32·7	23 33·8		
,, ,,	14 56	15 46	G. S. J.	2	23 31·0	23 41·7	23 26·4	23 36·9	23 34·0		23 33·1
,, 15	11 48	12 43	G. S. J.	1	23 34·0	23 47·2	23 21·5	23 31·7	23 33·6		
,, ,,	12 50	13 39	G. S. J.	2	23 28·1	23 40·7	23 25·8	23 38·0	23 33·1		
,, 18	13 50	14 45	G. S. J.	1	23 30·9	23 46·4	23 18·1	23 34·9	23 32·6	No. 2	
,, ,,	14 52	15 39	G. S. J.	2	23 29·9	23 45·5	23 25·7	23 35·0	23 34·0	° ′	
,, 22	11 49	12 45	G. S. J.	1	23 32·9	23 43·7	23 19·9	23 30·4	23 31·7	23 33·3	
,, ,,	12 52	13 38	G. S. J.	2	23 27·0	23 41·9	23 26·3	23 37·1	23 33·1		
,, 25	13 48	14 38	G. S. J.	1	23 33·3	23 47·2	23 20·2	23 32·9	23 33·4		
,, ,,	14 46	15 36	G. S. J.	2	23 34·3	23 44·2	23 28·5	23 38·9	23 36·5		
MAR. 1	11 57	12 51	G. S. J.	1	23 31·3	23 44·9	23 22·7	23 32·7	23 32·9		
,, ,,	12 58	13 50	G. S. J.	2	23 26·1	23 42·0	23 25·2	23 35·6	23 32·2		
,, 4	13 52	14 43	G. S. J.	1	23 32·6	23 47·6	23 21·4	23 30·5	23 33·0		
,, ,,	14 50	15 40	G. S. J.	2	23 30·3	23 42·9	23 24·7	23 41·1	23 34·7	No. 1	
,, 8	11 44	12 40	G. S. J.	1	23 32·8	23 47·1	23 24·0	23 33·1	23 34·2	° ′	
,, ,,	12 47	13 37	G. S. J.	2	23 34·6	23 45·4	23 23·9	23 36·2	23 35·0	23 33·1	
,, 11	13 56	14 47	G. S. J.	1	23 29·3	23 45·1	23 19·8	23 29·1	23 30·8		
,, ,,	14 55	15 48	G. S. J.	2	23 29·2	23 42·9	23 24·7	23 37·5	23 33·6		
,, 15	11 56	12 49	G. S. J.	1	23 36·7	23 51·3	23 10·7	23 28·7	23 33·3		23 33·5
,, ,,	12 57	13 50	G. S. J.	2	23 29·4	23 41·5	23 24·2	23 35·4	23 32·6		
,, 18	13 47	14 38	G. S. J.	1	23 33·4	23 47·7	23 19·7	23 29·3	23 32·5		
,, ,,	14 46	15 33	G. S. J.	2	23 32·1	23 44·7	23 23·9	23 35·9	23 34·1		
,, 22	12 0	12 52	G. S. J.	1	23 32·9	23 47·7	23 21·2	23 33·4	23 33·8	No. 2	
,, ,,	13 0	13 48	G. S. J.	2	23 31·1	23 44·3	23 23·4	23 36·5	23 33·8	° ′	
,, 25	13 40	14 31	G. S. J.	1	23 34·0	23 47·0	23 21·5	23 30·3	23 33·2	23 33·9	
,, ,,	14 38	15 27	G. S. J.	2	23 32·4	23 43·0	23 24·2	23 39·2	23 34·7		
,, 30	11 46	12 38	G. S. J.	1	23 35·8	23 51·0	23 18·8	23 31·4	23 34·2		
,, ,,	12 45	13 35	G. S. J.	2	23 29·0	23 44·9	23 26·0	23 38·2	23 34·5		
APR. 1	13 57	14 52	G. S. J.	1	23 37·3	23 49·9	23 22·3	23 32·5	23 35·5		
,, ,,	15 0	15 50	G. S. J.	2	23 32·1	23 39·9	23 30·1	23 39·5	23 35·4		
,, 5	11 45	12 42	G. S. J.	1	23 33·6	23 47·0	23 17·5	23 31·4	23 32·4		
,, ,,	12 50	13 48	G. S. J.	2	23 28·6	23 41·3	23 25·7	23 39·0	23 33·6	No. 1	
,, 8	13 50	14 45	G. S. J.	1	23 35·7	23 51·2	23 20·3	23 32·8	23 35·0	° ′	
,, ,,	14 51	15 35	G. S. J.	2	23 30·7	23 46·3	23 26·6	23 38·5	23 35·5	23 33·8	
,, 12	12 3	12 54	G. S. J.	1	23 32·3	23 47·1	23 21·0	23 32·4	23 33·2		
,, ,,	13 0	13 51	G. S. J.	2	23 29·8	23 43·4	23 21·4	23 36·9	23 33·4		
,, 15	13 54	14 47	G. S. J.	1	23 34·6	23 47·3	23 20·2	23 34·5	23 34·1		23 34·4
,, ,,	14 54	15 46	G. S. J.	2	23 31·3	23 45·2	23 31·4	23 39·2	23 36·8		
,, 20	12 0	12 54	G. S. J.	1	23 33·1	23 41·0	23 23·9	23 28·6	23 31·6		
,, ,,	13 2	13 48	G. S. J.	2	23 34·4	23 40·6	23 26·4	23 35·6	23 34·2		
,, 22	13 55	14 47	G. S. J.	1	23 38·2	23 44·5	23 23·2	23 34·7	23 35·1	No. 2	
,, ,,	14 54	15 46	G. S. J.	2	23 30·0	23 45·5	23 26·8	23 39·4	23 35·4	° ′	
,, 26	11 48	12 45	G. S. J.	1	23 31·1	23 48·5	23 20·7	23 27·6	23 32·0	23 35·0	
,, ,,	12 51	13 38	G. S. J.	2	23 34·5	23 46·6	23 23·6	23 36·1	23 35·2		
,, 29	13 56	14 47	G. S. J.	1	23 34·3	23 48·8	23 26·4	23 31·9	23 35·3		
,, ,,	14 55	15 46	G. S. J.	2	23 32·9	23 43·5	23 29·5	23 35·7	23 35·4		

1910. Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	End of Needle Dipping. Needle marked.	A. + Face of Circle. East.	A. + Face of Circle. West.	B. − Face of Circle. East.	B. − Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	′	° ′	° ′	° ′	° ′
MAY 3	11 42	12 36	G. S. J.	1	23 32·1	23 45·7	23 22·1	23 31·6	23 32·9		
" "	12 43	13 33	G. S. J.	2	23 28·9	23 41·2	23 25·1	23 36·2	23 32·8		
" 6	13 55	14 48	N.	1	23 40·0	23 52·5	23 22·7	23 30·5	23 36·4		
" "	14 58	15 54	N.	2	23 33·3	23 47·4	23 24·9	23 39·2	23 36·2	No. 1	
" 11	10 50	11 48	W. V. N.	1	23 38·1	23 45·7	23 30·4	23 30·1	23 36·1		
" "	11 58	12 55	W. V. N.	2	23 29·5	23 42·7	23 26·2	23 39·9	23 34·6	23 35·1	
" 13	13 51	14 46	G. S. J.	1	23 40·9	23 44·6	23 25·1	23 32·2	23 35·7		
" "	14 53	15 37	G. S. J.	2	23 31·9	23 45·2	23 27·5	23 39·1	23 35·9		
" 17	11 58	12 53	G. S. J.	1	23 36·2	23 46·7	23 20·1	23 32·2	23 33·8		23 35·0
" "	13 0	13 49	G. S. J.	2	23 31·7	23 43·7	23 21·9	23 39·5	23 34·2		
" 21	14 6	14 59	G. S. J.	1	23 37·9	23 44·6	23 20·1	23 29·9	23 33·1		
" "	15 5	15 54	G. S. J.	2	23 28·4	23 41·5	23 29·3	23 40·4	23 34·9		
" 24	11 56	12 58	G. S. J.	1	23 44·5	23 41·6	23 20·6	23 29·2	23 34·0	No. 2	
" "	13 5	13 57	G. S. J.	2	23 34·6	23 46·3	23 22·2	23 33·7	23 34·2		
" 27	13 48	14 38	G. S. J.	1	23 38·6	23 49·5	23 26·9	23 34·7	23 37·4	23 35·0	
" "	14 45	15 36	G. S. J.	2	23 31·3	23 48·8	23 26·7	23 41·6	23 37·1		
" 31	11 36	12 27	G. S. J.	1	23 35·8	23 51·6	23 23·1	23 33·8	23 36·1		
" "	12 35	13 28	G. S. J.	2	23 29·2	23 46·6	23 26·3	23 39·6	23 35·4		
JUNE 3	13 53	14 46	G. S. J.	1	23 37·8	23 47·6	23 21·9	23 32·6	23 35·0		
" "	14 54	15 38	G. S. J.	2	23 31·4	23 38·9	23 35·9	23 41·2	23 36·8		
" 7	11 48	12 43	G. S. J.	1	23 36·0	23 41·8	23 24·3	23 33·8	23 34·0	No. 1	
" "	12 50	13 40	G. S. J.	2	23 36·6	23 42·4	23 25·3	23 35·5	23 34·9		
" 10	13 51	14 40	G. S. J.	1	23 34·2	23 49·6	23 24·6	23 35·9	23 36·1	23 34·4	
" "	14 47	15 38	G. S. J.	2	23 31·0	23 47·4	23 29·0	23 34·7	23 35·5		
" 14	11 42	12 37	G. S. J.	1	23 33·2	23 40·1	23 21·2	23 34·7	23 32·3		
" "	12 46	13 35	G. S. J.	2	23 32·9	23 39·9	23 29·4	23 33·2	23 33·8		23 34·8
" 17	13 50	14 40	G. S. J.	1	23 41·0	23 46·1	23 23·8	23 30·7	23 35·4		
" "	14 47	15 34	G. S. J.	2	23 32·0	23 45·4	23 30·4	23 36·6	23 36·1		
" 21	11 40	12 32	G. S. J.	1	23 41·8	23 51·6	23 21·7	23 32·7	23 36·9		
" "	12 40	13 30	G. S. J.	2	23 31·7	23 41·1	23 29·2	23 35·3	23 34·3	No. 2	
" 24	13 47	14 35	G. S. J.	1	23 29·0	23 45·7	23 20·1	23 34·7	23 32·4		
" "	14 42	15 27	G. S. J.	2	23 35·9	23 40·0	23 26·1	23 35·3	23 34·3	23 35·2	
" 28	12 24	13 19	G. S. J.	1	23 33·0	23 42·1	23 23·9	23 32·4	23 32·8		
" "	13 27	14 16	G. S. J.	2	23 36·4	23 45·4	23 27·9	23 33·1	23 35·7		
JULY 1	13 39	14 31	G. S. J.	1	23 40·9	23 40·2	23 27·9	23 28·0	23 34·2		
" "	14 38	15 25	G. S. J.	2	23 36·4	23 39·2	23 30·4	23 35·9	23 35·5		
" 5	11 46	12 37	G. S. J.	1	23 39·2	23 40·2	23 22·4	23 30·4	23 33·0		
" "	12 44	13 35	G. S. J.	2	23 31·2	23 43·9	23 30·4	23 37·9	23 35·8	No. 1	
" 8	13 50	14 38	G. S. J.	1	23 41·1	23 37·7	23 28·2	23 33·0	23 35·0		
" "	14 44	15 34	G. S. J.	2	23 33·3	23 42·3	23 29·3	23 36·1	23 35·2	23 34·1	
" 12	11 36	12 26	G. S. J.	1	23 35·4	23 39·0	23 22·2	23 27·7	23 31·1		
" "	12 34	13 20	G. S. J.	2	23 35·6	23 38·0	23 30·1	23 33·1	23 35·7		23 34·6
" 15	13 55	14 48	G. S. J.	1	23 46·4	23 42·7	23 24·9	23 20·6	23 33·6		
" "	14 55	15 48	G. S. J.	2	23 31·3	23 37·6	23 26·8	23 37·6	23 33·3		
" 19	11 38	12 32	G. S. J.	1	23 38·8	23 50·4	23 16·2	23 28·1	23 33·4		
" 12	38	13 31	G. S. J.	2	23 29·1	23 43·2	23 27·1	23 35·3	23 33·7	No. 2	
" 22	13 38	14 31	G. S. J.	1	23 40·9	23 53·1	23 21·0	23 32·5	23 30·9		
" "	14 38	15 26	G. S. J.	2	23 31·7	23 44·7	23 31·8	23 39·4	23 36·9	23 35·2	
" 26	11 45	12 32	G. S. J.	1	23 35·0	23 44·6	23 21·3	23 30·7	23 32·9		
" "	12 40	13 27	G. S. J.	2	23 33·1	23 41·6	23 27·0	23 35·7	23 34·6		
" 29	13 40	14 33	G. S. J.	1	23 39·9	23 51·6	23 20·7	23 34·9	23 36·8		
" "	14 41	15 30	G. S. J.	2	23 32·3	23 44·9	23 28·9	23 37·6	23 35·9		
AUG. 2	11 58	12 49	G. S. J.	1	23 35·9	23 45·1	23 23·7	23 36·6	23 35·3		
" "	12 55	13 49	G. S. J.	2	23 30·4	23 45·7	23 21·6	23 41·6	23 34·8		
" 5	13 56	14 49	G. S. J.	1	23 32·3	23 46·7	23 27·2	23 38·8	23 36·2		
" "	14 56	15 46	G. S. J.	2	23 34·9	23 49·5	23 31·1	23 37·3	23 38·2		
" 9	11 48	12 40	G. S. J.	1	23 34·5	23 44·2	23 18·7	23 35·5	23 33·2	No. 1	
" "	12 47	13 37	G. S. J.	2	23 34·6	23 44·1	23 24·7	23 36·2	23 34·9		
" 12	13 48	14 40	G. S. J.	1	23 37·4	23 52·7	23 18·6	23 37·2	23 36·5	23 36·2	
" "	14 46	15 35	G. S. J.	2	23 30·2	23 44·2	23 31·0	23 34·6	23 37·4		
" 16	11 54	12 50	G. S. J.	1	23 35·1	23 45·8	23 21·7	23 33·8	23 34·1		23 36·4
" "	12 57	13 48	G. S. J.	2	23 37·2	23 45·2	23 24·6	23 33·7	23 34·7		
" 19	13 50	14 43	G. S. J.	1	23 39·6	23 49·2	23 21·5	23 36·6	23 36·7		
" "	14 50	15 36	G. S. J.	2	23 40·0	23 47·4	23 31·0	23 37·6	23 39·0	No. 2	
" 23	11 45	12 35	G. S. J.	1	23 36·4	23 40·0	23 29·4	23 38·2	23 38·2		
" "	12 41	13 30	G. S. J.	2	23 39·1	23 48·9	23 28·5	23 37·2	23 38·4	23 36·6	
" 26	13 49	14 33	G. S. J.	1	23 39·5	23 45·9	23 35·3	23 31·1	23 37·9		
" "	14 40	15 30	G. S. J.	2	23 38·0	23 40·4	23 27·0	23 37·6	23 35·7		
" 30	12 10	13 0	G. S. J.	1	23 36·7	23 45·6	23 28·9	23 40·0	23 37·8		
" "	13 6	13 52	G. S. J.	2	23 34·8	23 43·4	23 28·7	23 37·4	23 36·1		

1910. Date.	Alibag Civil Time (0 to 24 hours) At commencement.	At conclusion.	Observer.	Needle marked.	End of Needle Dipping. A. Face of Circle. East.	A. Face of Circle. West.	B. Face of Circle. East.	B. Face of Circle. West.	Mean Dip.	Monthly Mean for each Needle.	Monthly Mean.
	H. m.	H. m.			° ′	° ′	° ′	° ′	° ′		
SEPT. 2	13 51	14 42	G. S. J.	1	23 37·8	23 49·2	23 27·1	23 34·1	23 37·0		
,, ,,	14 49	15 37	G. S. J.	2	23 32·3	23 47·4	23 26·6	23 38·7	23 36·2		
,, 6	11 47	12 38	G. S. J.	1	23 42·4	23 50·1	23 26·4	23 33·6	23 38·1		
,, ,,	12 44	13 34	G. S. J.	2	23 34·5	23 45·1	23 29·5	23 37·6	23 36·7	No. 1	
,, 9	13 54	14 51	G. S. J.	1	23 43·2	23 47·2	23 31·2	23 35·1	23 39·2	° ′	
,, ,,	14 58	15 46	G. S. J.	2	23 36·7	23 45·9	23 29·5	23 38·9	23 37·7	23 38·4	
,, 13	12 4	12 53	G. S. J.	1	23 39·9	23 50·7	23 25·4	23 34·8	23 37·7		
,, ,,	13 0	13 47	G. S. J.	2	23 35·7	23 45·1	23 27·5	23 40·0	23 37·1		
,, 16	13 50	14 39	G. S. J.	1	23 40·6	23 49·0	23 27·2	23 32·8	23 37·4		23 37·9
,, ,,	14 47	15 33	G. S. J.	2	23 35·6	23 45·6	23 31·5	23 38·4	23 37·8		
,, 20	11 45	12 35	G. S. J.	1	23 37·4	23 48·1	23 23·7	23 31·3	23 35·1		
,, ,,	12 41	13 27	G. S. J.	2	23 32·7	23 41·8	23 29·3	23 36·2	23 35·0		
,, 23	13 48	14 39	G. S. J.	1	23 39·5	23 53·9	23 26·5	23 38·9	23 39·7	No. 2.	
,, ,,	14 46	15 35	G. S. J.	2	23 36·7	23 47·7	23 33·2	23 38·8	23 39·1	° ′	
,, 27	11 46	12 37	G. S. J.	1	23 39·7	23 44·6	23 29·2	23 35·8	23 37·3	23 37·5	
,, ,,	12 44	13 38	G. S. J.	2	23 42·0	23 39·4	23 27·2	23 35·4	23 36·0		
,, 30	13 55	14 46	G. S. J.	1	23 53·8	23 44·2	23 34·6	23 42·4	23 43·7		
,, ,,	14 54	15 46	G. S. J.	2	23 40·2	23 50·9	23 31·2	23 44·2	23 41·6		
OCT. 4	11 48	12 43	G. S. J.	1	23 43·0	23 46·1	23 24·7	23 40·9	23 38·7		
,, ,,	12 50	13 37	G. S. J.	2	23 33·9	23 47·8	23 29·9	23 42·1	23 38·4		
,, 7	13 49	14 40	G. S. J.	1	23 42·8	23 48·9	23 29·3	23 32·4	23 38·3		
,, ,,	14 46	15 33	G. S. J.	2	23 37·9	23 48·7	23 32·0	23 40·9	23 39·9	No. 1	
,, 12	11 37	12 25	G. S. J.	1	23 42·4	23 42·5	23 29·7	23 32·9	23 36·6	° ′	
,, 12	12 32	13 18	G. S. J.	2	23 41·2	23 47·6	23 32·9	23 37·8	23 39·9	23 38·7	
,, 14	13 56	14 54	G. S. J.	1	23 43·9	23 47·4	23 29·4	23 38·1	23 39·7		
,, ,,	15 0	15 49	G. S. J.	2	23 40·0	23 44·4	23 35·3	23 38·3	23 39·5		23 39·0
,, 18	11 50	12 45	G. S. J.	1	23 36·2	23 47·5	23 25·9	23 36·5	23 36·5		
,, ,,	12 53	13 46	G. S. J.	2	23 35·5	23 46·9	23 28·2	23 40·1	23 37·7		
,, 21	13 55	14 46	G. S. J.	1	23 39·2	23 51·9	23 27·3	23 36·0	23 38·6	No. 2	
,, ,,	14 53	15 46	G. S. J.	2	23 32·0	23 47·1	23 26·9	23 43·1	23 37·3	° ′	
,, 25	11 45	12 39	G. S. J.	1	23 37·2	23 51·1	23 25·9	23 41·3	23 38·9	23 39·2	
,, ,,	12 45	13 33	G. S. J.	2	23 35·5	23 52·1	23 29·9	23 42·4	23 40·0		
,, 28	13 57	14 49	G. S. J.	1	23 44·8	23 51·4	23 32·1	23 40·3	23 42·1		
,, ,,	14 56	15 47	G. S. J.	2	23 40·2	23 47·4	23 33·7	23 42·2	23 40·9		
NOV. 1	11 54	12 46	G. S. J.	1	23 41·0	23 46·8	23 34·6	23 35·5	23 39·5		
,, ,,	12 53	13 38	G. S. J.	2	23 36·8	23 48·9	23 29·3	23 42·6	23 39·4		
,, 4	13 54	14 45	G. S. J.	1	23 42·7	23 51·2	23 29·2	23 38·9	23 40·5		
,, ,,	14 53	15 37	G. S. J.	2	23 39·1	23 52·9	23 31·7	23 39·4	23 40·8	No. 1	
,, 8	11 44	12 38	G. S. J.	1	23 36·7	23 53·7	23 26·0	23 39·4	23 37·4	° ′	
,, ,,	12 45	13 36	G. S. J.	2	23 33·9	23 45·3	23 29·4	23 40·6	23 37·3	23 39·7	
,, 11	13 50	14 40	G. S. J.	1	23 40·0	23 50·9	23 24·1	23 38·9	23 38·5		
,, ,,	14 46	15 32	G. S. J.	2	23 37·9	23 43·4	23 30·3	23 40·7	23 38·1		
,, 15	11 30	12 18	G. S. J.	1	23 42·9	23 49·4	23 25·2	23 39·5	23 39·2		23 39·5
,, ,,	12 25	13 11	G. S. J.	2	23 35·7	23 45·2	23 31·4	23 38·0	23 37·6		
,, 18	14 4	14 54	G. S. J.	1	23 49·1	23 47·1	23 31·2	23 36·1	23 40·9		
,, ,,	15 0	15 48	G. S. J.	2	23 36·3	23 51·0	23 32·7	23 43·5	23 40·9	No. 2	
,, 22	11 58	12 48	G. S. J.	1	23 41·9	23 46·6	23 31·9	23 36·5	23 39·2	° ′	
,, ,,	12 55	13 47	G. S. J.	2	23 35·9	23 47·5	23 31·7	23 40·5	23 38·9	23 39·2	
,, 25	13 49	14 42	G. S. J.	1	23 44·6	23 57·4	23 26·3	23 39·2	23 41·9		
,, ,,	14 49	15 35	G. S. J.	2	23 35·3	23 47·9	23 32·8	23 41·2	23 39·3		
,, 30	11 52	12 45	G. S. J.	1	23 37·7	23 56·5	23 25·5	23 42·1	23 40·4		
,, ,,	12 52	13 38	G. S. J.	2	23 38·9	23 49·3	23 32·6	23 41·6	23 40·6		
DEC. 2	13 54	14 46	G. S. J.	1	23 40·9	23 53·4	23 27·7	23 37·2	23 39·8		
,, ,,	14 54	15 46	G. S. J.	2	23 36·3	23 49·1	23 32·8	23 40·7	23 39·7		
,, 6	11 46	12 36	G. S. J.	1	23 45·5	23 52·2	23 24·9	23 38·7	23 40·3		
,, ,,	12 44	13 31	G. S. J.	2	23 39·5	23 48·9	23 35·2	23 42·6	23 41·4	No. 1	
,, 9	13 52	14 40	G. S. J.	1	23 46·8	23 52·2	23 28·8	23 32·5	23 40·1	° ′	
,, ,,	14 46	15 32	G. S. J.	2	23 37·6	23 45·8	23 31·3	23 39·6	23 38·6	23 39·3	
,, 13	11 49	12 41	G. S. J.	1	23 33·9	23 46·7	23 29·0	23 38·4	23 37·0		
,, ,,	12 48	13 38	G. S. J.	2	23 36·5	23 45·7	23 32·3	23 38·9	23 38·3		
,, 16	13 55	14 47	G. S. J.	1	23 44·0	23 50·7	23 30·5	23 40·8	23 41·5		23 39·4
,, ,,	14 55	15 46	G. S. J.	2	23 38·6	23 49·4	23 33·7	23 44·5	23 41·5		
,, 20	11 50	12 42	G. S. J.	1	23 41·0	23 47·9	23 31·0	23 37·6	23 39·4		
,, ,,	12 49	13 38	G. S. J.	2	23 37·9	23 45·7	23 33·7	23 40·3	23 39·4		
,, 23	15 12	16 2	G. S. J.	1	23 42·0	23 47·7	23 28·5	23 37·2	23 38·8	No. 2	
,, ,,	16 10	16 56	G. S. J.	2	23 37·2	23 46·1	23 31·5	23 40·9	23 38·9	° ′	
,, 27	12 2	12 58	G. S. J.	1	23 39·9	23 47·1	23 26·4	23 36·2	23 37·4	23 39·4	
,, ,,	13 6	13 51	G. S. J.	2	23 34·4	23 43·9	23 31·4	23 38·9	23 37·1		
,, 30	13 52	14 40	G. S. J.	1	23 39·4	23 50·6	23 28·5	23 40·6	23 39·8		
,, ,,	14 48	15 35	G. S. J.	2	23 37·4	23 47·9	23 30·4	23 43·1	23 39·7		

The mean Dip for the year ... { With Needle No. 1 = 23 35·7 / With Needle No. 2 = 23 35·8

The mean † observed Dip for the year 1910 = 23° 35′·8

† The monthly and annual means corrected for diurnal variation appear in table VIII.

Absolute Magnetical Observations, Alibag—Table III b.

OBSERVATIONS OF INCLINATION.

Taken with Inductor No. 41 by Schulze and Galvanometer No. 200 by Plath.

1910. Date.		Alibag Civil Time (0 to 24 hours). At commencement.	At conclusion.	Observers.	Face of Circle. East.	Face of Circle. West.	Mean Inclination.	Monthly mean Inclination.
		H. m.	H. m.		° ′	° ′	° ′	° ′
JAN.	1	13 2	13 25	G. S. J. and B. P.	23 35·20	23 35·33	23 35·26	
,,	8	12 35	13 8	,,	23 34·01	23 34·91	23 34·46	
,,	15	12 24	12 54	,,	23 32·28	23 33·07	23 32·67	23 34·00
,,	22	12 32	12 52	,,	23 32·62	23 32·52	23 32·57	
,,	29	12 27	12 54	,,	23 34·53	23 35·51	23 35·02	
FEB.	5	12 47	13 16	,,	23 36·79	23 37·26	23 37·02	
,,	12	12 32	13 4	,,	23 34·96	23 36·22	23 35·59	23 35·50
,,	19	11 56	12 16	,,	23 34·80	23 34·04	23 34·42	
,,	26	12 13	12 40	,,	23 34·93	23 35·05	23 34·99	
MARCH	5	11 49	12 24	,,	23 35·32	23 35·61	23 35·46	
,,	12	12 35	13 14	,,	23 35·21	23 36·36	23 35·78	23 35·08
,,	19	12 33	13 24	,,	23 34·42	23 35·36	23 34·89	
,,	26	12 27	12 59	,,	23 33·86	23 34·53	23 34·19	
APRIL	2	12 21	12 50	,,	23 37·21	23 38·20	23 37·70	
,,	9	12 20	12 45	,,	23 35·80	23 36·15	23 35·97	
,,	16	12 28	12 54	,,	23 35·50	23 36·86	23 36·18	23 36·79
,,	23	12 43	13 10	,,	23 36·98	23 37·45	23 37·21	
,,	30	12 19	12 45	,,	23 36·27	23 37·53	23 36·90	
MAY	7	12 39	13 8	,,	23 37·49	23 37·95	23 37·72	
,,	14	13 4	13 30	,,	23 38·02	23 39·03	23 38·52	23 37·80
,,	21	12 52	13 20	,,	23 38·11	23 38·29	23 38·20	
,,	28	12 22	12 51	,,	23 36·29	23 37·27	23 36·78	
JUNE	4	12 53	13 19	,,	23 32·34	23 37·63	23 34·98	
,,	11	12 50	13 22	,,	23 37·70	23 38·78	23 38·24	23 37·16
,,	18	12 17	12 40	,,	23 35·85	23 37·10	23 36·47	
,,	25	12 39	13 18	,,	23 38·61	23 39·27	23 38·94	
JULY	2	12 20	12 44	,,	23 39·27	23 39·40	23 39·33	
,,	9	12 5	12 35	,,	23 36·28	23 37·69	23 36·98	
,,	16	12 10	12 33	,,	23 37·03	23 37·41	23 37·22	23 38·13
,,	23	12 38	13 10	,,	23 38·48	23 38·94	23 38·71	
,,	30	12 30	12 53	,,	23 37·85	23 38·98	23 38·41	
AUG.	6	12 50	13 27	,,	23 39·61	23 38·78	23 39·19	
,,	13	12 26	13 4	,,	23 38·40	23 40·07	23 39·23	
,,	20	12 45	13 18	,,	23 39·77	23 40·74	23 40·25	23 39·32
,,	27	12 48	13 12	,,	23 38·21	23 38·99	23 38·60	
SEPT.	3	12 39	13 26	,,	23 37·83	23 39·66	23 38·74	
,,	10	12 37	12 56	,,	23 39·71	23 39·86	23 39·78	
,,	17	12 30	13 4	,,	23 40·20	23 41·39	23 40·79	23 39·98
,,	24	12 17	12 39	,,	23 40·24	23 41·00	23 40·62	
OCT.	8	14 52	15 34	,,	23 41·39	23 43·29	23 42·34	
,,	15	12 44	13 25	,,	23 40·42	23 41·50	23 40·96	23 41·46
,,	22	12 18	12 48	,,	23 40·29	23 41·86	23 41·07	
NOV.	6	14 30	14 49	,,	23 41·11	23 41·87	23 41·49	
,,	12	13 10	13 43	,,	23 41·83	23 43·87	23 42·85	23 42·69
,,	19	12 34	13 13	,,	23 43·42	23 42·73	23 43·07	
,,	26	12 33	13 22	,,	23 43·18	23 43·52	23 43·35	
DEC.	3	12 37	13 2	,,	23 43·68	23 44·39	23 44·03	
,,	10	12 47	13 22	,,	23 40·84	23 42·94	23 41·89	
,,	17	12 25	12 56	,,	23 43·67	23 42·30	23 42·98	23 43·69
,,	25	15 42	16 14	,,	23 45·23	23 45·49	23 45·36	
,,	31	12 29	12 58	,,	23 44·12	23 44·28	23 44·20	

The mean † observed Inclination for the year 1910 = 23 38·47

† The monthly and annual means corrected for diurnal variation appear in table VIII.

The temporary pillar on which the Inductor is mounted is a wooden one and not isolated from the floor of the observation room. The somewhat large differences occasionally noted in the results for face East and face West are probably in the main due to level changes on this account.

TABLE IV*a*.—*Base line values of the Horizontal Force Magnetograph derived*

3,60000γ+

1906. Date.	January. Observed.	Calculated.	Observed less calculated.	February. Observed.	Calculated.	Observed less calculated.	March. Observed.	Calculated.	Observed less calculated.	April. Observed.	Calculated.	Observed less calculated.	May. Observed.	Calculated.	Observed less calculated.	June. Observed.	Calculated.	Observed less calculated.
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
			γ			γ			γ			γ			γ			γ
1 ...	(416)	419	(−3)		445			465			492			524			565	
2 ...		421			446			466		(493)	493	(0)	523	525	−2		567	
3 ...	421	422	−1		446			467			494			526			568	
4 ...		423			447			467			495			527		(567)	570	(+3)
5 ...		424		(441)	448	(−7)	(466)	468	(−2)	499	496	+3		528			571	
6 ...		425			448			469			497			529		576	573	+3
7 ...		426		448	448	0	471	470	+1		498		(530)	530	(0)		575	
8 ...	(426)	427	(−1)		449			471			499			532			576	
9 ...		428			449			472		(496)	500	(−4)	534	533	+1		578	
10 ...	427	429	−2		450			472			501			535			579	
11 ...		430			451			473		499	502	−3		536		(575)	580	(−5)
12 ...		431		(448)	451	(−3)	(477)	474	(+3)		503			537			581	
13 ...		431			452			475			504			538		587	583	+4
14 ...		432		454	453	+1	477	476	+1		505		(539)	540	(−1)		584	
15 ...	(437)	433	(+4)		453			477			506			541			585	
16 ...		434			454			478		(505)	507	(−2)	542	542	0		586	
17 ...	439	435	+4		455			479			508			544			588	
18 ...		436			455			480		514	509	+5		545		(590)	589	(+1)
19 ...		436		(456)	456	(0)	(478)	481	(−3)		510			547			591	
20 ...		437			457			482			511			548		595	592	+3
21 ...		438		460	458	+2	480	483	−3		512		(539)	550	(−11)		593	
22 ...	(442)	439	(+3)		459			483			513			551			594	
23 ...		439			460			484		(510)	514	(−4)	558	552	+6		595	
24 ...	443	440	+3		461			485			515			554			597	
25 ...		441			462			486		519	516	+3		555		(596)	598	(−2)
26 ...		441		(456)	463	(−7)	(486)	487	(−1)		518			556			599	
27 ...		442			463			487			519			558		602	600	+2
28 ...		443		465	464	+1	486	488	−2		520		(559)	559	(0)		602	
29 ...	(441)	443	(−2)					489			521			561			603	
30 ...		444						490		(517)	523	(−6)	561	562	−1		604	
31 ...	446	445	+1					491						564				
Means ...	435	433	±2	457	454	±1	478	478	±2	508	507	±3	544	543	±2	590	586	±3
	(432)		(±3)	(450)		(±4)	(477)		(±2)	(504)		(±3)	(542)		(±3)	(582)		(±3)

* Values in brackets are derived from observations with Instrument No. 3.

Base line values are derived by first converting the corresponding mean ordinates in Tables I*a* and I*b* in C. G. S. unit (Unity = 1γ) by means of the mean monthly scale coefficients and subtracting these latter from the mean observed absolute Horizontal Force. Ordinates have been derived from the tabulations of the H. F. Magnetograms corresponding in time to absolute observations with Instrument No. 7 during the years 1908, 1909 and 1910. In case of observations with Instrument No. 7 during 1906 and 1907 and with Instrument No. 3 during the whole period 1906 to 1910, eye observations of the H. F. Magnetograph made at the times of the absolute determinations have been used. A small difference of about 1γ on an average is noted to exist between the tabulations and the eye readings and this small correction has been applied to the eye readings to make all the derived values correspond to the base line on the photographic paper. From the corresponding temperatures in Tables I*a* and I*b* and the adopted temperature co-efficient 3·6γ for 1° F., the base line values derived as above are reduced to an uniform temperature of 85° F. There has been a change in the thermometer on the 2nd February 1909 and base line values before that date have been corrected to 85·3° (corresponding to 85° of the new thermometer) to make the whole series comparable throughout all the years.

from Observations of Horizontal Force by Instrument No. 7 and Instrument No. 3.

July.			August.			September.			October.			November.			December.		
Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.
1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		γ			γ			γ			γ			γ			γ
	605			638			669		(682)	692	(−10)		460			486	
(600)	606	(−6)	637	639	−2		670			693			461			487	
	607			640		(673)	671	(+2)	689	694	−5		462		(488)	488	(0)
613	608	+5		641			671			694			463			488	
	609			642		675	672	+3		388	*	(458)	464	(−6)	487	489	−2
	610		(642)	643	(−1)		672			388			465			490	
	611			644			673			389		467	465	+2		491	
	612		648	645	+3		674		(393)	390	(+3)		466			492	
(607)	613	(−6)		646			674			391			467			493	
	614			647		(677)	675	(+2)	393	392	+1		468		(492)	494	(−2)
622	615	+7		648			676			393			469			495	
	616			650		674	677	−3		393		(467)	470	(−3)	497	495	+2
	617		(648)	651	(−3)		677			394			470			496	
	618			652			678			395		474	471	+3		496	
	619		654	653	+1		679			396			472			497	
(617)	620	(−3)		654			680		(394)	397	(−3)		473			498	
	621			655		(680)	680	(0)		398			474		(499)	499	(0)
627	622	+5		656			681		395	398	−3		474			499	
	624			657		686	682	+4		399		(474)	475	(−1)	505	500	+5
	625		(664)	658	(+6)		683			400			476			501	
	626			659			684			401		471	477	−6		501	
	627		663	660	+3		684		(400)	402	(−2)		478			502	
(620)	628	(−8)		661			685			403			479			503	
	629			662		(682)	686	(−4)	406	403	+3		480		(501)	504	(−3)
628	630	−2		663			687			404	*		480			505	
	631			664		689	688	+1		455		(483)	481	(+2)	507	506	+1
	632		(655)	664	(−9)		689			456			482			506	
	633			665			689			457		484	483	+1		507	
	634		664	666	−2		690		(457)	458	(−1)		484			508	
	635			667			691			459			485			509	
(636)	636	(0)		668					465	460	+5				(505)	509	(−4)
622	620	±5	653	653	±2	681	680	±3			±3	474	472	±3	499	498	±2
(616)		(±5)	(652)		(±5)	(678)		(±2)			(±4)	(470)		(±3)	(497)		(±2)

The calculated values of the base line in column 2 are derived by taking overlapping means of 10 successive observations and reducing them to the proper epoch; values for intermediate days being obtained by simple interpolation.

The departures of the observed from the calculated values in column 3 represent in the main the probable errors of the absolute determinations. As the calculated values are obtained from observations with both the instruments these departures involve a correction of 1γ which is on an average equal to half the difference between the values of H. determined by the two instruments.

Observed base line values for each day represent the result of a double set of vibration and deflection observations.

* H. F. Magnetograph was re-adjusted.

TABLE IV*b*.—*Base line values of the Horizontal Force Magnetograph derived*

360000γ+

1907.	January.			February.			March.			April.			May.			June.		
Date.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
			γ			γ			γ			γ			γ			γ
1 ...		510			533			554		(573)	572	(+1)	594	596	−2		622	
2 ...	511	511	0		534			554			572			597			622	
3 ...		511			535			554		574	573	+1		598		(619)	623	(−4)
4 ...		512		(533)	535	(−2)	(547)	555	(−8)		574			598			624	
5 ...		513			536			556			574			599		632	625	+7
6 ...		514		536	537	−1	556	556	0		575		(601)	600	(+1)		626	
7 ...	(511)	514	(−3)		537			557			576			601			626	
8 ...		515			538			558		(567)	576	(−9)	605	602	+3		627	
9 ...	516	516	0		539			558			577			602			628	
10 ...		517			540			559		575	578	−3		603		(627)	629	(−2)
11 ...		520		(537)	540	(−3)	(560)	560	(0)		579			604			630	
12 ...		520			541			560			579			605		632	631	+1
13 ...		521		548	541	+7	562	561	+1		580		(603)	605	(−2)		632	
14 ...		521			542			562			581			606			633	
15 ...	(523)	522	(+1)		542			562		(581)	581	(0)	610	607	+3		634	
16 ...		523			543			563			582			608			635	
17 ...	523	523	0		544			563		585	583	+2		609		(631)	636	(−5)
18 ...		524		(538)	545	(−7)	(569)	564	(+5)		584			610			637	
19 ...		525			545			564			584			611		637	638	−1
20 ...		525		549	546	+3	564	565	−1		585		(610)	612	(−2)		639	
21 ...		526			547			565			586			613			640	
22 ...	(526)	527	(−1)		548			566			587		617	614	+3		641	
23 ...		527			548			566		(590)	588	(+2)		615			641	
24 ...	532	528	+4		549			567			589			615		(639)	642	(−3)
25 ...		529		(549)	550	(−1)	(564)	567	(−3)	590	590	0		616			643	
26 ...		530			551			568			591			617		648	644	+4
27 ...		530		558	552	+6	570	569	+1		592		(612)	618	(−6)		644	
28 ...	(532)	531	(+1)		553			569			593			618			645	
29 ...		532						570		(588)	594	(−6)	619	619	0		646	
30 ...	527	532	−5					571			595			620			647	
31 ...		533						571						621				
Means ...			±2	548	543	±4	563	562	±1	581	582	±1	609	608	±2	637	654	±3
			(±1)	(539)		(±3)	(560)		(±4)	(580)		(±4)	(606)		(±3)	(629)		(±3)

from Observations of Horizontal Force by Instrument No. 7 and Instrument No. 3.

July.			August.			September.			October.			November.			December.		
Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.
1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		γ			γ			γ			γ			γ			γ
(650)	648	(+2)		670		*	464			482			457			473	
	649			671		(465)	465	(0)	476	482	−6		458		(471)	474	(−3)
655	650	+5		671			465			483			458			474	
	651			672		460	466	−6		483		(458)	459	(−1)	474	475	−1
	652		(674)	672	(+2)		466			484			460			475	
	653			672			467			484		461	460	+1		476	
	653		670	673	−3		467		(488)	485	(+3)		461			476	
(653)	654	(−1)		674			468			485			461			476	
	655			674		(468)	468	(0)	488	486	+2		462		(473)	477	(−4)
652	656	−4		675			469			486			462			477	
	657			676		472	469	+3		486		(466)	463	(+3)	478	478	0
	657	*	(675)	676	(−1)		470			487			463			478	
	658			677			470			487		466	464	+2		479	
	658		681	677	+4		471			487			464			479	
(655)	659	(−4)		678			471		(493)	487	(+6)		465			480	
	659			678		(469)	472	(−3)		488			466		(479)	480	(−1)
669	660	+9		679			472		491	488	+3		466			480	
	661			679		474	473	+1		489		(463)	467	(−4)	488	481	+7
	661		(682)	680	(+2)		473			489			467			482	
	662			680			474			490		473	468	+5		482	
	662		683	681	+2		475		†	454			468			483	
(660)	663	(−3)		681			476		(453)	454	(−1)		469			483	
	663			682		(472)	477	(−5)		454			469		(483)	484	(−1)
664	664	0		682			477		452	455	−3		470			484	
	665			683		483	478	+5		455		(469)	470	(−1)	482	485	−3
	665		(682)	683	(−1)		479			456			471			485	
	666			684			479			456		472	471	+1		486	
	667		687	684	+3		480		(449)	456	(−7)		471			486	
(669)	668	(+1)		685			481			457			472			487	
	668			685		(480)	481	(−1)	453	457	−4		472		(487)	488	(−1)
664	669	−5		686						457						488	
661	659	±5	680	678	±3	472	472	±4			±3	468	465	±2	480	480	±3
(657)		(±2)	(678)		(±1)	(471)		(±2)			(±4)	(464)		(±2)	(479)		(±2)

* H. F. Magnetograph was re-adjusted on 1st September.
† Change in the base line value.

TABLE IVc.—*Base line values of the Horizontal Force Magnetograph derived*

360000γ+

1908.	January.			February.			March.			April.			May.			June.		
Date.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
			γ			γ			γ			γ			γ			γ
1 ...	487	489	−2		503			514		531	532	−1		545		(561)	564	(−3)
2 ...		489			504			515			533			546			565	
3 ...		489		(505)	504	(+1)	(514)	515	(−1)		534			547		565	566	−1
4 ...		489			504			516			534		(544)	548	(−4)		566	
5 ...		490		506	505	+1	519	516	+3		534			548			567	
6 ...	(492)	490	(+2)		505			517		(538)	534	(+4)	551	549	+2		567	
7 ...		491			506			517			535			550			568	
8 ...	492	491	+1		506			518		536	535	+1		550		(564)	568	(−4)
9 ...		491			507		(516)	519	(−3)		536			551			569	
10 ...		492		(502)	507	(−5)		519			536			552		568	569	−1
11 ...		493			507		516	520	−4		537		(548)	552	(−4)		570	
12 ...		493		510	508	+2		521			537			553			570	
13 ...	(490)	494	(−4)		508			522		(534)	537	(+3)	557	554	+3		571	
14 ...		495			509			522			537			554			572	
15 ...	501	496	+5		509			523		536	538	−2		555		(570)	572	(−2)
16 ...		496			509		(516)	523	(−7)		538			555			573	
17 ...		497		(508)	510	(−2)		524			538			556		576	574	+2
18 ...		497			510		531	525	+6		539		(557)	557	(0)		574	
19 ...		498		512	510	+2		525			539			557			575	
20 ...	(490)	498	(−8)		510			526		(538)	540	(−2)	562	558	+4		575	
21 ...		499			511			526			540			558			576	
22 ...	500	499	+1		511			527		539	540	−1		559		(576)	576	(0)
23 ...		499			511		(524)	527	(−3)		541			559			577	
24 ...		499		(508)	512	(−4)		528			541			560		579	578	+1
25 ...		500			512		532	528	+4		542		(561)	560	(+1)		578	
26 ...		500		513	512	+1		529			542			561			579	
27 ...	(497)	501	(−4)		513			529		(543)	543	(0)		562			580	
28 ...		502			513			530			543		564	562	+2		580	
29 ...	512	502	+10		514			531		541	544	−3		563		(580)	580	(0)
30 ...		503					(537)	531	(+6)		545			563			581	
31 ...		503						532						564				
Means ...	498	496	±4	510	509	±1	524	523	±4	537	538	±2	558	555	±3	572	573	±1
	(492)		(±4)	(506)		(±3)	(521)		(±4)	(538)		(±2)	(552)		(±2)	(570)		(±2)

from Observations of Horizontal Force by Instrument No. 7 and Instrument No. 3.

July.			August.			September.			October.			November.			December.		
Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.
1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		γ			γ			γ			γ			γ			γ
590	582	+8		595			610			627			640			459	
	582			595		613	611	+2		628		(641)	641	(0)	467	459	+8
	583		(597)	596	(+1)		611			628			641			460	
	583			596			612			629		635	641	−6		460	
	583		591	597	−6		613		(623)	629	(−6)		642			460	
(579)	584	(−5)		597			613			630			642			461	
	584			598		(615)	614	(+1)	629	630	−1		643		(456)	461	(−5)
584	585	−1		598			614			631			643			462	
	585			598		612	615	−3		631		(644)	643	(+1)	461	462	−1
	586		(599)	599	(0)		615			631			644			462	
	586			599			616			632			*452			462	
	586		603	600	+3		617		(630)	632	(−2)	450	452	−2		463	
(589)	587	(+2)		600			618			633			452			463	
	587			601		(617)	618	(−1)	636	633	+3		453		(462)	464	(−2)
584	588	−4		601			619			634			453			464	
	588			602		617	619	−2		634		(453)	454	(−1)		465	
	589		(604)	603	(+1)		620			634			454		461	465	−4
	589			603			620			634		457	454	+3		466	
	589		604	604	0		621		(638)	634	(+4)		455			466	
(590)	589	(+1)		604			621			635			455			466	
	589			605		(624)	622	(+2)	637	635	+2		456		(462)	466	(−4)
590	590	0		605			622			636			456			467	
	590			606		622	622	0		637		(458)	456	(+2)	471	467	+4
	591		(605)	607	(−2)		623			637			457			467	
	591			607			623			637		457	457	0		468	
	592		605	608	−3		624		(636)	638	(−2)		458			468	
(592)	592	(0)		608			625			638			458			469	
	593			609		(625)	625	(0)	640	639	+1		458		(469)	469	(0)
591	593	−2		609			626			639			459			469	
	594			609		634	627	+7		639		(459)	459	(0)	473	470	+3
	594		(609)	610	(−1)					640						470	
588	588	±3	601	602	±3	620	619	±3	635	634	±2			±3	467	465	±4
(587)		(±2)	(603)		(±1)	(620)		(±1)	(632)		(±3)			(±1)	(462)		(±3)

*H. F. Magnetograph was re-adjusted.

TABLE IV*d*.—*Base line values of the Horizontal Force Magnetograph derived*

36,000γ+

1909.	January.			February.			March.			April.			May.			June.		
Date.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
			γ			γ			γ			γ			γ			γ
1 ...		470		(479)	482	(−3)	(491)	492	(−1)	506	505	+1		516			528	
2 ...		471			482			493			505			516		528	528	0
3 ...		471		486	482	+4	489	493	−4		505		(518)	517	(+1)		529	
4 ...	(474)	472	(+2)		482			493			505			517			529	
5 ...		472			483			494		(504)	506	(−2)	518	518	0		529	
6 ...	475	473	+2		483			494			506			518			529	
7 ...		473			483			494		500	506	−6		519		(535)	530	(+5)
8 ...		474		(486)	484	(+2)	(499)	495	(+4)		507			519			530	
9 ...		474			484			495			507			520		529	530	−1
10 ...		474		488	485	+3	499	496	+3		507		(521)	520	(+1)		531	
11 ...	(471)	474	(−3)		485			497			508			521			531	
12 ...		474			485			497		(507)	508	(−1)	520	521	−1		532	
13 ...	475	474	+1		486			498			508			521			532	
14 ...		475			486			498		516	508	+8		522		(531)	533	(−2)
15 ...		475		(485)	487	(−2)	(494)	499	(−5)		509			522			533	
16 ...		475			487			499			509			523		530	533	−3
17 ...		476		491	488	+3	506	500	+6		509		(522)	523	(−1)		534	
18 ...	(474)	476	(−2)		488			500			510			523			534	
19 ...		476			489			500		(506)	510	(−4)	529	524	+5		534	
20 ...	477	477	0		489			501			511			524			534	
21 ...		477			490			501		512	511	+1		525		(529)	535	(−6)
22 ...		477		(483)	490	(−7)	(495)	501	(−6)		512			525			535	
23 ...		478			490			501			512			526		539	535	+4
24 ...		478		490	490	0	506	502	+4		513		(526)	526	(0)		535	
25 ...	(477)	479	(−2)		491			502			513			526			535	
26 ...		479			491			502		(512)	514	(−2)	527	526	+1		536	
27 ...	475	479	−4		491			503			514			527			536	
28 ...		480			492			503		511	515	−4		527		(542)	536	(+6)
29 ...		480					(505)	504	(+1)		515			527			537	
30 ...		481						504			516			528		541	537	+4
31 ...		481						504					(524)	528	(−4)			
Means ...	475	476	±2	489	487	±2	500	499	±4	509	509	±4	523	522	±2	533	533	±2
	(474)		(±2)	(483)		(±3)	(497)		(±3)	(507)		(±2)	(522)		(±1)	(534)		(±5)

from Observations of Horizontal Force by Instrument No. 7 and Instrument No. 3.

July.			August.			September.			October.			November.			December.		
Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.
1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		γ			γ			γ			γ			γ			γ
	537			545		559	555	+4		568		(581)	581	(0)	595	592	+3
	537		(544)	545	(−1)		555			569			581			593	
	537			545			556			569		579	582	−3		593	
	537		543	546	−3		556		(567)	570	(−3)		582			594	
(535)	538	(−3)		547			556			571			582			594	
	538			547		(554)	556	(−2)	568	571	−3		583		(587)	594	(−7)
540	539	+1		547			557			571			583			594	
	539			548		557	557	0		572		(577)	583	(−6)	602	595	+7
	540		(549)	548	(+1)		558			573			583			595	
	540			548			558			573		585	584	+1		595	
	540		552	548	+4		559		(573)	574	(−1)		584			595	
539	540	(−1)		548			559			574			584			596	
	540			549		(558)	560	(−2)	579	575	+4		585		(594)	596	(−2)
539	540	−1		549			560			575			585			596	
	540			549		560	560	0		575		(581)	586	(−5)	598	596	+2
	540		(550)	550	(0)		561			575			586			596	
	541			550			561			576			586			596	
	541		547	550	−3		562		(577)	576	(+1)	592	586	+6		596	
(535)	541	(−6)		551			562			576			586			596	
	541			551		(564)	562	(+2)		577			587		(597)	596	(+1)
541	541	0		551			563		578	577	+1		588			597	
	542			552		556	563	−7		577		(588)	588	(0)	600	597	+3
	542		(555)	552	(+3)		564			578			589			597	
	542			553			564			578		589	589	0		598	
	543		551	553	−2		565		(582)	579	(+3)		590			598	
(547)	543	(+4)		553			565			579			590			598	
	543			553		(572)	566	(+6)	580	579	+1		591			598	
544	544	0		554			567			580			591		(597)	598	(−1)
	544			554		567	567	0		580		(592)	592	(0)		598	
	544		(551)	554	(−3)		568			580			592		603	599	+4
	545			554						581						599	
541	541	0	548	550	±3	560	561	±2	576	575	±2	586	586	±2	600	596	±4
(539)		(±3)	(550)		(±2)	(562)		(±3)	(575)		(±2)	(584)		(±2)	(594)		(±3)

TABLE IVe.—*Base line values of the Horizontal Force Magnetograph derived*

360000γ +

1910.	January.			February.			March.			April.			May.			June.		
Date.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
			γ			γ			γ			γ			γ			γ
1 ...		599			607			615			628			635		421	420	+1
2 ...		599		608	607	+1	616	616	0		628		(635)	636	(−1)		421	
3 ...	(591)	599	(−8)		608			616			629			636			421	
4 ...		599			608			616		(626)	629	(−3)	635	636	−1		421	
5 ...	596	600	−4		609			617			629			637			421	
6 ...		600			609			617		629	630	−1		637		(423)	421	(+2)
7 ...		601		(608)	609	(−1)	(613)	618	(−5)		630			638			422	
8 ...		601			610			618			630			638		423	422	+1
9 ...		601		610	610	0	617	618	−1		631			639			422	
10 ...	(601)	601	(0)		610			619			631		(637)	639	(−2)		422	
11 ...		601			610			619		(632)	632	(0)		639			422	
12 ...	606	601	+5		610			620			632		634	639	−5		423	
13 ...		602			610			620		632	632	0		640		(422)	423	(−1)
14 ...		602		(605)	611	(−6)	(618)	620	(−2)		632			640			423	
15 ...		602			611			621			632			640		425	423	+2
16 ...		602		610	611	−1	623	621	+2		633		(638)	640	(−2)		423	
17 ...	(598)	602	(−4)		611			622			633			640			424	
18 ...		603			612			622			633		640	641	−1		424	
19 ...	604	603	+1		612			622		(632)	633	(−1)		641			424	
20 ...		604			612			623			633			641		(421)	424	(−3)
21 ...		604		(616)	612	(+4)	(621)	623	(−2)	632	634	−2		641			424	
22 ...		605			613			624			634			641		430	424	+6
23 ...		605		619	613	+6	623	624	−1		634		(645)	642	(+3)		424	
24 ...	(610)	605	(+5)		613			625			634			642			424	
25 ...		606			614			625		(634)	634	(0)	649	642	+7		425	
26 ...	605	606	−1		614			626			634			642			425	
27 ...		606			614			626		641	635	+6		642		(421)	425	(−4)
28 ...		606		(612)	615	(−3)		626			635			643			425	
29 ...		606					(631)	627	(+4)		635			643		424	425	−1
30 ...		606						627			635		(643)	643	(0)		425	
31 ...	(606)	606	(0)				632	628	+4					643	*			
Means ...	603	603	±3	612	611	±2	622	621	±2	633	632	±2	639	640	±3	425	423	±2
	(601)		(±3)	(610)		(±3)	(621)		(±3)	(631)		(±1)	(640)		(±2)	(422)		(±2)

* Thick lines denote a shift in the base line value due to the readjustment of the H. F. Magnetograph.

from Observations of Horizontal Force by Instrument No. 7 and Instrument No. 3.

July.			August.			September.			October.			November.			December		
Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.	Observed.	Calculated.	Observed less calculated.
1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		γ			γ			γ			γ			γ			γ
	426		(435)	431	(+4)		440			449			460			465	
	426			431			441			449		463	460	+3		465	
	426		430	432	−2		441		(448)	449	(−1)		461			465	
(427)	426	(+1)		432			441			450			461			465	
	426			432		(439)	442	(−3)	449	450	−1		461		(465)	466	(−1)
423	426	−3		433			442			451			462			466	
	426			433			442			451		(465)	462	(+3)	470	466	+4
	426		(434)	434	(0)	440	442	−2		452			462			466	
	426			434			443			452		463	462	+1		467	
	426		436	435	+1		443			453			462			467	
(429)	426	(+3)		435			443		(452)	453	(−1)		462			467	
	427			436		(442)	443	(−1)		453			462		(460)	468	(−8)
426	427	−1		436			443		458	453	+5		463			468	
	427			436		439	443	−4		453		(463)	463	(0)	467	468	−1
	428		(432)	437	(−5)		443			454			463			468	
	428			437			443			454		463	463	0		468	
	428		432	437	−5		443		(449)	455	(−6)		464			468	
(431)	428	(+3)		437			444			455			464			469	
	428			437		(445)	444	(+1)	454	456	−2		464		(467)	469	(−2)
424	429	−5		437			445			456			464			469	
	429			438		447	445	+2		457		(464)	465	(−1)	471	469	+2
	429		(443)	438	(+5)		445			457			465			469	
	429			438			446			458		460	4·4	−4		469	
	430		438	438	0		446		(463)	458	(+5)		464			469	
(430)	430	(0)		439			447			458			464			469	
	430			439		(448)	447	(+1)	460	459	+1		464		(473)	469	(+4)
429	430	−1		439			448			459			464			469	
	431			439		447	448	−1		459		(465)	464	(+1)		470	
	431		(451)	439	(+12)		448			459		469	465	+4	472	470	+2
	431			439			448			460			465			471	
	431		437	440	−3				(455)	460	(−5)					471	
425	428	±2	435	436	±2	443	444	±2	455	455	±2	464	463	±2	470	468	±2
(429)		(±2)	(439)		(±5)	(443)		(±1)	(453)		(±4)	(464)		(±1)	(466)		(±4)

TABLE V*a*.—*Base line values of the Declination Magnetograph derived*

1906.				1907.				1908.	
Date.	Observed.	Calculated.	Difference.	Date.	Observed.	Calculated.	Difference.	Date.	Observed.
1	2	3	4	1	2	3	4	1	2
	E /	E /	/		/	/	/		/
January 4 ...	19·1	19·1	0	January 3 ...	2·9	3·1	− 0·2	January 2 ...	3·0
„ 11 ...	19·1	19·1	0	„ 10 ...	3·2	3·0	+ 0·2	„ 9 ...	3·0
„ 18 ...	19·2	19·1	+ 0·1	„ 18 ...	3·0	3·1	− 0·1	„ 16 ...	3·0
„ 25 ...	19·1	19·2	− 0·1	„ 25 ...	3·1	3·1	0	„ 23 ...	3·0
				„ 31 ...	3·0	3·1	− 0·1	„ 30 ...	2·9
February 1 ...	19·2	19·1	+ 0·1						
„ 8 ...	19·2	19·1	+ 0·1	February 7 ...	3·2	3·1	+ 0·1	February 6 ...	3·3
„ 15 ...	18·9	19·0	− 0·1	„ 14 ...	3·2	3·1	+ 0·1	„ 13 ...	3·0
„ 22 ...	19·2	19·0	+ 0·2	„ 21 ...	3·1	3·1	0	„ 20 ...	3·3
				„ 28 ...	3·1	3·1	0	„ 27 ...	3·3
March 1 ...	18·8	18·9	− 0·1						
„ 8 ...	18·9	18·9	0	March 7 ...	3·2	3·1	+ 0·1	March 6 ...	3·3
„ 15 ...	19·0	18·9	+ 0·1	„ 14 ...	3·0	3·1	− 0·1	„ 12 ...	3·2
„ 22 ...	18·9	19·0	− 0·1	„ 21 ...	3·1	3·0	+ 0·1	„ 19 ...	3·2
„ 29 ...	19·0	19·0	0	„ 28 ...	3·1	3·0	+ 0·1	„ 26 ...	2·8
April 6 ...	19·0	19·1	− 0·1	April 4 ...	2·8	3·0	− 0·2	April 2 ...	2·6
„ 12 ...	19·1	19·1	0	„ 11 ...	2·9	3·0	− 0·1	, 9 ...	3·0
„ 19 ...	19·3	19·2	+ 0·1	„ 18 ...	3·1	3·1	0	„ 16 ...	3·3
„ 26 ...	19·2	19·3	− 0·1	„ 26 ...	3·0	3·2	− 0·2	„ 23 ...	3·3
								„ 30 ...	3·3
May 3 ...	19·5	19·4	+ 0·1	May 2 ...	3·5	3·2	+ 0·3		
„ 10 ...	19·5	19·5	0	„ 9 ...	3·1	3·2	− 0·1	May 7 ...	3·1
„ 17 ...	19·7	19·6	+ 0·1	„ 16 ...	3·1	3·2	− 0·1	„ 14 ...	3·1
„ 24 ...	19·5	19·7	− 0·2	„ 23 ...	3·2	3·2	0	„ 21 ...	3·6
„ 31 ...	20·0	19·8	+ 0·2	„ 30 ...	3·4	3·3	+ 0·1	„ 29 ...	3·6
June 7 ...	19·9	19·8	+ 0·1	June 6 ...	3·4	3·4	0	June 4 ...	3·7
„ 14 ...	19·9	19·7	+ 0·2	„ 13 ...	3·6	3·5	+ 0·1	„ 11 ...	3·8
„ 21 ...	19·3	19·5	− 0·2	„ 20 ...	3·6	3·6	0	„ 18 ...	4·1
„ 28 ...	19·5	19·4	+ 0·1	„ 27 ...	3·7	3·6	+ 0·1	„ 25 ...	3·8
July 5 ...	19·0	19·3	− 0·3	July 4 ...	3·6	3·5	+ 0·1	July 2 ...	3·9
„ 12 ...	19·4	19·2	+ 0·2	„ 11 ...	3·4	3·5	− 0·1	„ 9 ...	3·9
„ 19 ...	19·2	19·2	0	„ 18 ...	3·5	3·4	+ 0·1	„ 16 ...	3·9
„ 26 ...	19·2	19·2	0	„ 25 ...	3·4	3·4	0	„ 23 ...	4·0
								„ 30 ...	3·8
August 3 ...	19·3	19·3	0	August 1 ...	3·4	3·3	+ 0·1		
„ 9 ...	19·3	19·3	0	„ 8 ...	3·1	3·3	− 0·2	August 6 ...	3·7
„ 16 ...	19·3	19·4	− 0·1	„ 15 ...	3·4	3·3	+ 0·1	„ 13 ...	3·8
„ 24 ...	19·7	19·5	+ 0·2	„ 22 ...	3·1	3·3	− 0·2	„ 20 ...	3·7
„ 30 ...	19·3	19·5	− 0·2	„ 29 ...	3·4	3·3	+ 0·1	„ 27 ...	3·6
September 6 ...	19·6	19·5	+ 0·1	September 5 ...	3·4	3·4	0	September 3 ...	3·7
„ 13 ...	19·2	19·6	− 0·4	„ 12 ...	3·4	3·4	0	„ 10 ...	3·5
„ 20 ...	19·7	19·6	+ 0·1	„ 19 ...	3·5	3·4	+ 0·1	„ 17 ...	3·7
„ 28 ...	19·9	19·7	+ 0·2	„ 26 ...	3·3	3·4	− 0·1	„ 24 ...	3·6
October 4 ...	19·7	19·7	0	October 3 ...	3·4	3·4	0	October 1 ...	3·4
„ 11 ...	19·4	19·7	− 0·3	„ 10 ...	3·4	3·4	0	„ 8 ...	3·5
„ 19 ...	19·7	19·7	0	„ 18 ...	3·5	3·3	+ 0·2	„ 15 ...	3·4
„ 25 ...	19·8	19·7	+ 0·1	„ 25 ...	3·2	3·2	0	„ 22 ...	3·2
	W	W		„ 31 ...	3·1	3·2	− 0·1	„ 29 ...	3·3
November 1 ...	3·3	3·5	− 0·2						
„ 8 ...	3·4	3·4	0	November 7 ...	3·1	3·2	− 0·1	November 5 ...	3·0
„ 15 ...	3·3	3·3	0	„ 14 ...	3·4	3·2	+ 0·2	„ 13 ...	3·2
„ 22 ...	3·4	3·2	+ 0·2	„ 21 ...	3·3	3·2	+ 0·1	„ 19 ...	2·9
„ 29 ...	3·0	3·2	− 0·2	„ 28 ...	3·1	3·2	− 0·1	„ 27 ...	3·0
December 6 ...	3·0	3·2	− 0·2	December 5 ...	3·0	3·1	− 0·1	December 3 ...	2·9
„ 13 ...	3·4	3·2	+ 0·2	„ 12 ...	3·1	3·0	+ 0·1	„ 10 ...	3·1
„ 20 ...	3·2	3·2	0	„ 19 ...	2·9	3·1	− 0·2	„ 18 ...	3·2
„ 27 ...	3·2	3·1	+ 0·1	„ 26 ...	3·1	3·0	+ 0·1	„ 24 ...	3·1
								„ 31 ...	3·0
Means ...	19·34	19·34	± 0·11	Means ...	3·23	3·23	± 0·10	Means ...	3·35
	3·24	3·26							

Base line values are derived by first converting the corresponding tabulated ordinates in Table II*a* into arc, and subtracting these latter The calculated values are obtaining by taking overlapping means of 4 successive observations and reducing them to the Declination Magnetograph was adjusted on the 26th October 1906; base line values before that date denote *easterly* and after that A shift in the base line values of about 0'·8 occurred on the 18th December 1910 on which day the instrument was opened

from the Observations of absolute Declination by Instrument No. 7.

1909.						1910.					
Calculated.	Difference.	Date.	Observed..	Calculated.	Difference.	Date.	Observed.	Calculated.	Difference.
3	4	1	2	3	4	1	2	3	4
′	′		′	′	′		′	′	′
3·0	0	January 7 ...	3·2	3·2	0	January 6 ...	3·7	3·5	+ 0·2
3·0	0	,, 14 ...	3·3	3·3	0	,, 13 ...	3·4	3·5	− 0·1
3·0	0	,, 21 ...	3·6	3·4	+ 0·2	,, 20 ...	3·5	3·5	0
3·0	0	,, 28 ...	3·1	3·5	− 0·4	,, 27 ...	3·5	3·5	0
3·0	− 0·1								
		February 4 ...	3·7	3·5	+ 0·2	February 3 ...	3·5	3·6	− 0·1
3·1	+ 0·2	,, 11 ...	3·7	3·5	+ 0·2	,, 10 ...	3·7	3·6	+ 0·1
3·2	− 0·2	,, 18 ...	3·5	3·5	0	,, 17 ...	3·5	3·5	0
3·2	+ 0·1	,, 25 ...	3·3	3·4	− 0·1	,, 24 ...	3·5	3·5	0
3·3	0								
		March 4 ...	3·4	3·3	+ 0·1	March 3 ...	3·4	3·4	0
3·3	0	,, 11 ...	3·3	3·3	0	,, 10 ...	3·5	3·4	+ 0·1
3·2	0	,, 18 ...	3·2	3·3	− 0·1	,, 17 ...	3·4	3·4	0
3·1	+ 0·1	,, 25 ...	3·3	3·3	0	,, 24 ...	3·3	3·4	− 0·1
2·9	− 0·1								
		April 2 ...	3·4	3·2	+ 0·2	April 1 ...	3·3	3·4	− 0·1
2·9	− 0·3	,, 8 ...	3·0	3·2	− 0·2	,, 7 ...	3·5	3·4	+ 0·1
3·0	0	,, 15 ...	3·2	3·1	+ 0·1	,, 14 ...	3·4	3·5	− 0·1
3·1	+ 0·2	,, 22 ...	3·1	3·2	− 0·1	,, 22 ...	3·5	3·6	− 0·1
3·2	+ 0·1	,, 29 ...	3·3	3·3	0	,, 28 ...	3·8	3·7	+ 0·1
3·2	+ 0·1								
		May 6 ...	3·5	3·4	+ 0·1	May 5 ...	3·9	3·8	+ 0·1
3·2	− 0·1	,, 13 ...	3·6	3·6	0	,, 13 ...	3·9	3·9	0
3·3	− 0·2	,, 20 ...	3·6	3·6	0	,, 19 ...	4·1	3·9	+ 0·2
3·4	+ 0·2	,, 27 ...	3·7	3·7	0	,, 26 ...	3·9	4·0	− 0·1
3·6	0								
		June 3 ...	3·8	3·8	0	June 2 ...	4·0	4·0	0
3·8	− 0·1	,, 10 ...	3·9	3·8	+ 0·1	,, 9 ...	4·1	4·0	+ 0·1
3·9	− 0·1	,, 17 ...	3·6	3·7	− 0·1	,, 16 ...	3·9	3·9	0
3·9	+ 0·2	,, 24 ...	3·7	3·7	0	,, 23 ...	4·0	3·8	+ 0·2
3·9	− 0·1					,, 30 ...	3·7	3·8	− 0·1
		July 1 ...	3·6	3·7	− 0·1				
3·9	0	,, 8 ...	3·7	3·6	+ 0·1	July 7 ...	3·7	3·7	0
3·9	0	,, 15 ...	3·7	3·6	+ 0·1	,, 14 ...	3·5	3·6	− 0·1
3·9	0	,, 22 ...	3·5	3·6	− 0·1	,, 21 ...	3·7	3·6	+ 0·1
3·9	+ 0·1	,, 29 ...	3·5	3·5	0	,, 28 ...	3·6	3·6	0
3·8	0								
		August 5 ...	3·5	3·4	+ 0·1	August 5 ...	3·7	3·6	+ 0·1
3·8	− 0·1	,, 12 ...	3·2	3·4	− 0·2	,, 11 ...	3·5	3·6	− 0·1
3·7	+ 0·1	,, 19 ...	3·5	3·4	+ 0·1	,, 18 ...	3·7	3·6	+ 0·1
3·7	0	,, 26 ...	3·6	3·5	+ 0·1	,, 25 ...	3·7	3·6	+ 0·1
3·7	− 0·1								
		September 2 ...	3·4	3·5	− 0·1	September 1 ...	3·4	3·7	− 0·3
3·6	+ 0·1	,, 9 ...	3·4	3·4	0	,, 9 ...	3·8	3·7	+ 0·1
3·6	− 0·1	,, 16 ...	3·5	3·4	+ 0·1	,, 15 ...	3·7	3·7	0
3·6	+ 0·1	,, 23 ...	3·4	3·4	0	,, 22 ...	3·8	3·7	+ 0·1
3·6	0	,, 30 ...	3·4	3·4	0	,, 29 ...	3·6	3·6	0
3·5	− 0·1	October 7 ...	3·4	3·4	0	October 6 ...	3·5	3·6	− 0·1
3·4	+ 0·1	,, 14 ...	3·4	3·4	0	,, 14 ...	3·6	3·7	− 0·1
3·4	0	,, 22 ...	3·3	3·4	− 0·1	,, 20 ...	3·9	3·8	+ 0·1
3·3	− 0·1	,, 28 ...	3·8	3·3	+ 0·5	,, 27 ...	4·1	3·9	+ 0·2
3·2	+ 0·1								
		November 4 ...	3·2	3·2	0	November 3 ...	3·9	3·9	0
3·2	− 0·2	,, 11 ...	2·8	3·2	− 0·4	,, 10 ...	3·7	3·8	− 0·1
3·1	+ 0·1	,, 19 ...	3·2	3·1	+ 0·1	,, 17 ...	3·7	3·8	− 0·1
3·0	− 0·1	,, 25 ...	3·5	3·2	+ 0·3	,, 24 ...	4·0	3·8	+ 0·2
3·0	0								
		December 2 ...	3·2	3·3	− 0·1	December 1 ...	3·8	3·8	0
3·0	− 0·1	,, 9 ...	3·4	3·4	0	,, 8 ...	3·8	3·8	0·0
3·1	0	,, 16 ...	3·3	3·4	− 0·1	,, 15 ...	3·7	3·8	− 0·1
3·1	+ 0·1	,, 23 ...	3·6	3·5	+ 0·1				
3·1	0	,, 31 ...	3·5	3·5	0	,, 22 ...	4·6	4·6	0
3·1	− 0·1					,, 28 ...	4·6	4·6	0
							3·68	3·67	
3·36	± 0·08	Means ...	3·43	3·42	± 0·10	Means ...	4·60	4·60	± 0·08

from the observed absolute Easterly Declination (1 cm = 10′·28).

proper epoch.

date *westerly* Declination, and positive differences in the former correspond to negative ones in the latter.

and cleaned.

TABLE V*b*.—*Base line values of the Declination Magnetograph derived*

1906.					1907.					1908.		
Date.	Observed.	Calculated.	Difference.	Excesses of the differences in column 4 over the mean difference for the year.	Date.	Observed.	Calculated.	Difference.	Excesses of the differences in column 4 over the mean difference for the year.	Date.	Observed.	Calculated.
1	2	3	4	5	1	2	3	4	5	1	2	3
	E.	E.										
	′	′	′	′		′	′	′	′		′	′
January 4 ...	18·7	19·1	− 0·4	+ 0.6	January 3 ...	3·7	3·1	− 0·6	+ 0·2	January 2 ...	3·6	3·0
,, 11 ...	18·1	19·1	− 1·0	0·0	,, 10 ...	3·6	3·0	− 0·6	+ 0·2	,, 9 ...	3·9	3·0
,, 18 ...	18·3	19·1	− 0·8	+ 0·2	,, 18 ...	3·9	3·1	− 0·8	0·0	,, 16 ...	3·5	3·0
,, 25 ...	17·9	19·2	− 1·3	− 0·3	,, 25 ...	3·7	3·1	− 0·6	+ 0·2	,, 23 ...	3·8	3·0
					,, 31 ...	3·6	3·1	− 0·5	+ 0·3	,, 30 ...	3·3	3·0
February 1 ...	18·0	19·1	− 1·1	− 0·1								
,, 8 ...	18·0	19·1	− 1·1	− 0·1	February 7 ...	3·6	3·1	− 0·5	+ 0·3	February 6 ...	3·8	3·1
,, 15 ...	18·0	19·0	− 1·0	0·0	,, 14 ...	3·7	3·1	− 0·6	+ 0·2	,, 13 ...	3·6	3·2
,, 22 ...	17·7	19·0	− 1·3	− 0.3	,, 21 ...	3·8	3·1	− 0·7	+ 0·1	,, 20 ...	3·8	3.2
					,, 28 ...	3·8	3·1	− 0·7	+ 0·1	,, 27 ...	3·7	3·3
March 1 ...	17·8	18·9	− 1·1	− 0·1								
,, 8 ...	17·9	18·9	− 1·0	0·0	March 7 ...	3·9	3·1	− 0·8	0·0	March 6 ...	3·4	3·3
,, 15 ...	17·8	18·9	− 1·1	− 0·1	,, 14 ...	4·1	3·1	− 1·0	− 0·2	,, 12 ...	4·0	3·2
,, 22 ...	17·9	19·0	− 1·1	− 0·1	,, 21 ...	4·2	3·0	− 1·2	− 0·4	,, 19 ...	3·9	3·1
,, 29 ...	17·4	19·0	− 1·6	− 0·6	,, 28 ...	4·3	3·0	− 1·3	− 0·5	,, 26 ...	3·2	2·9
April 6 ...	18·1	19·1	− 1·0	0·0	April 4 ...	4·3	3·0	− 1·3	− 0·5	April 2 ...	3·3	2·9
,, 12 ...	18·1	19·1	− 1·0	0·0	,, 11 ...	3·9	3·0	− 0·9	− 0·1	,, 9 ...	3·4	3·0
,, 19 ...	17·9	19·2	− 1·3	− 0·3	,, 18 ...	3·8	3·1	− 0·7	+ 0·1	,, 16 ...	3·6	3·1
,, 26 ...	18·1	19·3	− 1·2	− 0·2	,, 26 ...	4·1	3·2	− 0·9	− 0·1	,, 23 ...	3·6	3·2
										,, 30 ...	4·0	3·2
May 3 ...	18·0	19·4	− 1·4	− 0·4	May 2 ...	4·3	3·2	− 1·1	− 0·3			
,, 10 ...	18·6	19·5	− 0·9	+ 0·1	,, 9 ...	4·3	3·2	− 1·1	− 0·3	May 7 ...	4·5	3·2
,, 17 ...	18·5	19·6	− 1·1	− 0·1	,, 16 ...	4·2	3·2	− 1·0	− 0·2	,, 14 ...	4·6	3·3
,, 24 ...	18·6	19·7	− 1·1	− 0·1	,, 23 ...	4·2	3·2	− 1·0	− 0·2	,, 21 ...	4·5	3·4
,, 31 ...	18·3	19·8	− 1·5	− 0·5	,, 30 ...	4·4	3·3	− 1·1	− 0·3	,, 29 ...	5·0	3·6
June 7 ...	18·8	19·8	− 1·0	0·0	June 6 ...	4·2	3·4	− 0·8	0·0	June 4 ...	4·8	3·8
,, 14 ...	18·8	19·7	− 0·9	+ 0·1	,, 13 ...	4·2	3·5	− 0·7	+ 0·1	,, 11 ...	4·8	3·9
,, 21 ...	18·5	19·5	− 1.0	0·0	,, 20 ...	3·9	3·6	− 0·3	+ 0·5	,, 18 ...	5·1	3·9
,, 28 ...	18·0	19·4	− 1·4	− 0·4	,, 27 ...	4·3	3·6	− 0·7	+ 0·1	,, 25 ...	4·7	3·9
July 5 ...	18·3	19·3	− 1·0	0·0	July 4 ...	4·4	3·5	− 0·9	− 0·1	July 2 ...	4·5	3·9
,, 12 ...	18·1	19·2	− 1·1	− 0·1	,, 11 ...	4·3	3·5	− 0·8	0·0	,, 9 ...	4·4	3·9
,, 19 ...	18·5	19·2	− 0·7	+ 0·3	,, 19 ...	3·8	3·4	− 0·4	+ 0·4	,, 16 ...	4·4	3·9
,, 26 ...	18·3	19·2	− 0·9	+ 0·1						,, 23 ...	4·3	3·9
										,, 30 ...	4·2	3·8
August 3 ...	18·1	19·3	− 1·2	− 0·2	August 1 ...	4·2	3·3	− 0·9	− 0·1			
,, 9 ...	18·4	19·3	− 0·9	+ 0·1	,, 8 ...	4·2	3·3	− 0·9	− 0·1	August 6 ...	4·4	3·8
,, 16 ...	18·5	19·4	− 0·9	+ 0·1	,, 15 ...	4·3	3·3	− 1·0	− 0·2	,, 13 ...	4·2	3·7
,, 24 ...	18·8	19·5	− 0·7	+ 0·3	,, 22 ...	4·2	3·3	− 0·9	− 0·1	,, 20 ...	4·3	3·7
,, 30 ...	18·3	19·5	− 1·2	− 0·2	,, 29 ...	4·2	3·3	− 0·9	− 0·1	,, 27 ...	4·4	3·7
September 6 ...	18·6	19·5	− 0·9	+ 0·1	September 5 ...	4·6	3·4	− 1·2	− 0·4	September 3 ...	4·5	3·6
,, 13 ...	19·0	19·6	− 0·6	+ 0·4	,, 12 ...	4·4	3·4	− 1·0	− 0·2	,, 10. ...	4·6	3·6
,, 20 ...	18·7	19·6	− 0·9	+ 0·1	,, 19 ...	4·4	3·4	− 1·0	− 0·2	,, 17 ...	4·3	3·6
,, 28 ...	19·2	19·7	− 0·5	+ 0·5	,, 26 ...	4·1	3·4	− 0·7	+ 0·1	,, 24 ...	4·1	3·6
October 4 ...	19·0	19·7	− 0·7	+ 0·3	October 3 ...	4·1	3·4	− 0·7	+ 0·1	October 1 ...	4·1	3·5
,, 11 ...	19·0	19·7	− 0·7	+ 0·3	,, 10 ...	4·1	3·4	− 0·7	+ 0·1	,, 8 ...	4·3	3·4
,, 19 ...	18·6	19·7	− 1·1	− 0·1	,, 18 ...	3·9	3·3	− 0·6	+ 0·2	,, 15 ...	4·2	3·4
,, 25 ...	18·7	19·7	− 1·0	0·0	,, 25 ...	4·0	3·2	− 0·8	0·0	,, 22 ...	4·6	3·3
	W.	W.			,, 31 ...	4·2	3·2	− 1·0	− 0·2	,, 29 ...	4·5	3·2
November 1 ...	4·5	3·5	− 1·0	0·0								
,, 8 ...	4·0	3·4	− 0·6	+ 0·4	November 7 ...	4·1	3·2	− 0·9	− 0·1	November 5 ...	4·1	3·2
,, 15 ...	4·1	3·3	− 0·8	+ 0·2	,, 14 ...	4·2	3·2	− 1·0	− 0·2	,, 13 ...	4·3	3.1
,, 22 ...	4·3	3·2	− 1·1	− 0·1	,, 21 ...	4·0	3·2	− 0·8	0·0	,, 19 ...	4·2	3·0
,, 29 ...	3·6	3·2	− 0·4	+ 0·6	,, 28 ...	3·9	3·2	− 0·7	+ 0·1	,, 27 ...	4·1	3.0
										December 3 ...	3·7	3·0
December 6 ...	4·0	3·2	− 0·8	+ 0·2	December 5 ...	4·0	3·1	− 0·9	− 0·1	,, 10 ...	3·8	3·1
,, 13 ...	4·1	3·2	− 0·9	+ 0·1	,, 12 ...	3·8	3·0	− 0·8	0·0	,, 18 ...	4·0	3·1
,, 20 ...	3·8	3·2	− 0·6	+ 0·4	,, 19 ...	3·6	3·1	− 0·5	+ 0·3	,, 24 ...	4·1	3·1
,, 27 ...	4·0	3·1	− 0·9	+ 0·1	,, 26 ...	3·4	3·0	− 0·4	+ 0·4	,, 31 ...	3·9	3·1
Means ...	18·32	19·34	− 0·98	+0·19	Means ...	4·5	3·23	−0·82	+ 0·18	Means ...	4·11	3·36
	4·04	3·26										

Base line values are derived by first converting the corresponding eye-readings in Table II *b* into arc and substracting these latter from the observed read off on the magnetograph scale; this correction has been applied to the eye-readings to make the values correspond to the base line on the photographic

The calculated values in column 3 are the same as those derived from Instrument No. 7 and given in column 3, Table V*a*, and the differences in column 4 column 4 be taken to represent for that year the difference due to (1), the excesses over the mean of the values for each observation given in column 5 would

Declination Magnetograph was adjusted on the 26th October 1906; bass line values before that date denote *easterly* and after that date *westerly* declina-

from the observations of absolute Declination by Instrument No. 3.

1909.						1910.				
Date.	Observed.	Calculated.	Difference.	Excesses of the differences in column 4 over the mean difference for the year.	Difference.	Excesses of the differences in column 4 over the mean difference for the year.	Date.	Observed.	Calculated.	Difference.	Excesses of the differences in column 4 over the mean difference for the year.
1	2	3	4	5	4	5	1	2	3	4	5
	′	′	′	′	′	′		′	′	′	′
January 7 ...	3·8	3·2	− 0·6	− 0·2	− 0·6	+ 0·1	January 6 ...	3·7	3·5	− 0·2	+ 0·8
,, 14 ...	3·5	3·3	− 0·2	+ 0·2	− 0·9	− 0·2	,, 13 ...	3·6	3·5	− 0·1	+ 0·9
,, 21 ...	3·8	3·4	− 0·4	0·0	− 0·5	+ 0·2	,, 20 ...	3·6	3·5	− 0·1	+ 0·9
,, 28 ...	3·7	3·5	− 0·2	+ 0·2	− 0·8	+ 0·1	,, 27 ...	3·8	3·5	− 0·3	+ 0·7
February 4 ...	3·8	3·5	− 0·3	+ 0·1	− 0·3	+ 0·4	February 3 ...	3·9	3·6	− 0·3	+ 0·7
,, 11 ...	3·4	3·5	+ 0·1	+ 0·5	− 0·7	0·0	,, 10 ...	3·9	3·6	− 0·3	+ 0·7
,, 18 ...	3·2	3·5	+ 0·3	+ 0·7	− 0·4	+ 0·3	,, 17 ...	4·2	3·5	− 0·7	+ 0·3
,, 25 ...	3·7	3·4	− 0·3	+ 0·1	− 0·6	+ 0·1	,, 24 ...	3·7	3·5	− 0·2	+ 0·8
March 4 ...	4·3	3·3	− 1·0	− 0·6	− 0·4	+ 0·3	March 3 ...	4·1	3·4	− 0·7	+ 0·3
,, 11 ...	3·6	3·3	− 0·3	+ 0·1	− 0·1	+ 0·6	,, 10 ...	3·9	3·4	− 0·5	+ 0·5
,, 18 ...	4·2	3·3	− 0·9	− 0·5	− 0·8	− 0·1	,, 17 ...	4·0	3·4	− 0·6	+ 0·4
,, 25 ...	3·7	3·3	− 0·4	0·0	− 0·8	− 0·1	,, 24 ...	3·9	3·4	− 0·5	+ 0·5
April 2 ...	3·7	3·2	− 0·5	− 0·1	− 0·3	+ 0·4	April 1 ...	4·0	3·4	− 0·6	+ 0·4
,, 8 ...	3·7	3·2	− 0·5	− 0·1	− 0·4	+ 0·3	,, 7 ...	3·8	3·4	− 0·4	+ 0·6
,, 15 ...	3·6	3·1	− 0·5	− 0·1	− 0·4	+ 0·3	,, 14 ...	3·8	3·5	− 0·3	+ 0·7
,, 22 ...	3·7	3·2	− 0·5	− 0·1	− 0·5	+ 0·2	,, 22 ...	4·4	3·6	− 0·8	+ 0·2
,, 29 ...	3·7	3·3	− 0·4	0·0	− 0·4	+ 0·3	,, 28 ...	4·5	3·7	− 0·8	+ 0·2
May 6 ...	3·9	3·4	− 0·5	− 0·1	− 0·8	− 0·1	May 5 ...	4·7	3·8	− 0·9	+ 0·1
,, 13 ...	4·0	3·6	− 0·4	0·0	− 1·3	− 0·6	,, 13 ...	4·7	3·9	− 0·8	+ 0·2
,, 20 ...	3·8	3·6	− 0·2	+ 0·2	− 1·3	− 0·6	,, 19 ...	5·0	3·9	− 1·1	− 0·1
,, 27 ...	3·8	3·7	− 0·1	+ 0·3	− 1·1	− 0·4	,, 26 ...	5·0	4·0	− 1·0	0·0
June 3 ...	3·6	3·8	+ 0·2	+ 0·6	− 1·4	− 0·7	June 2 ...	4·7	4·0	− 0·7	+ 0·3
,, 10 ...	4·1	3·8	− 0·3	+ 0·1	− 1·0	− 0·3	,, 9 ...	5·1	4·0	− 1·1	− 0·1
,, 17 ...	3·9	3·7	− 0·2	+ 0·2	− 0·9	− 0·2	,, 16 ...	4·9	3·9	− 1·0	0·0
,, 24 ...	3·8	3·7	− 0·1	+ 0·3	− 1·2	− 0·5	,, 23 ...	5·0	3·8	− 1·2	− 0·2
July 1 ...	3·9	3·7	− 0·2	+ 0·2	− 0·8	− 0·1	,, 30 ...	4·7	3·8	− 0·9	+ 0·1
,, 8 ...	4·0	3·6	− 0·4	0·0	− 0·6	+ 0·1	July 7 ...	5·0	3·7	− 1·3	− 0·3
,, 15 ...	3·6	3·6	0·0	+ 0·4	− 0·5	+ 0·2	,, 14 ...	4·9	3·6	− 1·3	− 0·3
,, 22 ...	3·9	3·6	− 0·3	+ 0·1	− 0·5	+ 0·2	,, 21 ...	4·9	3·6	− 1·3	− 0·3
,, 29 ...	4·1	3·5	− 0·6	− 0·2	− 0·4	+ 0·3	,, 28 ...	4·9	3·6	− 1·3	− 0·3
August 5 ...	4·0	3·4	− 0·6	− 0·2	− 0·6	+ 0·1	August 5 ...	5·0	3·6	− 1·4	0·4
,, 12 ...	4·1	3·4	− 0·7	− 0·3	− 0·5	+ 0·2	,, 11 ...	5·1	3·6	− 1·5	− 0·5
,, 19 ...	3·9	3·4	− 0·5	− 0·1	− 0·6	+ 0·1	,, 18 ...	5·4	3·6	− 1·8	− 0·8
,, 26 ...	3·8	3·5	− 0·3	+ 0·1	− 0·7	0·0	,, 25 ...	5·4	3·6	− 1·8	− 0·8
September 2 ...	4·0	3·5	− 0·5	− 0·1	− 0·9	− 0·2	September 1 ...	5·2	3·7	− 1·5	− 0·5
,, 9 ...	3·9	3·4	− 0·5	− 0·1	− 1·0	− 0·3	,, 9 ...	5·0	3·7	− 1·3	− 0·3
,, 16 ...	3·7	3·4	− 0·3	+ 0·1	− 0·7	0·0	,, 15 ...	5·0	3·7	− 1·3	− 0·3
,, 23 ...	3·8	3·4	− 0·4	0·0	− 0·7	+ 0·2	,, 22 ...	5·2	3·7	− 1·5	− 0·5
,, 30 ...	4·2	3·4	− 0·8	− 0·4	− 0·5	+ 0·2	,, 29 ...	4·9	3·6	− 1·3	− 0·3
October 7 ...	3·9	3·4	− 0·5	− 0·1	− 0·6	+ 0·1	October 6 ...	4·8	3·6	− 1·2	− 0·2
,, 14 ...	3·7	3·4	− 0·3	+ 0·1	− 0·9	− 0·2	,, 14 ...	4·9	3·7	− 1·2	− 0·2
,, 22 ...	3·8	3·4	− 0·4	0·0	− 1·3	− 0·6	,, 20 ...	5·0	3·8	− 1·2	− 0·2
,, 28 ...	3·8	3·3	− 0·5	− 0·1	− 1·3	− 0·6	,, 27 ...	5·1	3·9	− 1·2	− 0·2
November 4 ...	4·0	3·2	− 0·8	− 0·4	− 0·9	− 0·2	November 3 ...	4·8	3·9	− 0·9	+ 0·1
,, 11 ...	3·9	3·2	− 0·7	− 0·3	− 1·2	− 0·5	,, 10 ...	4·9	3·8	− 1·1	− 0·1
,, 19 ...	4·2	3·1	− 1·1	− 0·7	− 1·2	− 0·5	,, 17 ...	4·9	3·8	− 1·1	− 0·1
,, 25 ...	4·2	3·2	− 1·0	− 0·6	− 1·1	− 0·4	,, 24 ...	4·8	3·8	− 1·0	0·0
							December 1 ...	4·6	3·8	− 0·8	+ 0·2
December 2 ...	4·2	3·3	− 0·9	− 0·5	− 0·7	0·0	,, 8 ...	4·9	3·8	− 1·1	− 0·1
,, 9 ...	3·9	3·4	− 0·5	− 0·1	− 0·7	0·0	,, 15 ...	4·4	3·8	− 0·6	+ 0·4
,, 16 ...	4·0	3·4	− 0·6	− 0·2	− 0·9	− 0·2					
,, 23 ...	4·2	3·5	− 0·7	− 0·3	− 1·0	− 0·3	,, 22 ...	5·8	4·6	− 1·2	− 0·2
,, 31 ...	4·0	3·5	− 0·5	− 0·1	− 0·8	− 0·1	,, 28 ...	5·9	4·6	− 1·3	− 0·3
Means ...	3·86	3·42	− 0·44	± 0·22	− 0·75	± 0·25	Means ...	4·59	3·67	− 0·97	± 0·36
								5·85	4·60		

absolute Easterly Declination. A small difference of about 0″·1 on an average is noted to exist between the ordinates tabulated on the photographic paper and paper.

would therefore represent (1) the instrumental and the site differences and (2) the probable errors of the absolute determinations. If the annual means in represent the errors due to (2) (*vide* also Introduction, page ii).

tion. A shift in the base line values of about 0′·8 occurred on the 18th December 1910 on which day the instrument was opened and cleaned.

TABLE VI*a*.—*Daily Means of Horizontal Force.*

$36000\gamma +$

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	879	856	859	884	882	893	887	871	**882**	**861**	873	**889**
2 ...	877	866	865	886	881	**835**	880	878	876	866	880	881
3 ...	875	868	878	886	880	867	886	882	872	867	884	873
4 ...	870	875	866	880	883	868	882	881	856	868	881	876
5 ...	875	879	863	884	889	874	868	884	864	870	860	879
6 ...	871	866	869	881	894	875	861	890	870	878	878	885
7 ...	877	871	860	886	890	876	874	874	873	882	883	886
8 ...	872	875	871	**897**	880	868	873	858	877	883	863	855
9 ...	879	878	866	864	874	870	882	866	877	**886**	871	828
10 ...	877	873	871	863	886	885	875	868	878	882	880	861
11 ...	882	877	876	862	882	883	867	877	878	876	876	866
12 ...	886	877	881	871	888	884	**856**	859	878	862	875	862
13 ...	880	878	875	884	897	887	870	**854**	874	867	871	868
14 ...	873	**885**	867	883	**898**	887	872	866	879	873	876	874
15 ...	870	852	867	887	**824**	**895**	869	871	875	881	875	875
16 ...	875	847	867	891	854	882	873	871	871	884	873	863
17 ...	879	864	882	892	865	877	878	876	873	878	882	855
18 ...	876	870	874	887	870	877	886	880	871	886	870	864
19 ...	859	**828**	884	879	865	879	883	883	876	867	874	869
20 ...	860	853	890	892	855	887	886	880	876	876	876	873
21 ...	866	867	**893**	884	862	890	879	877	879	881	859	870
22 ...	881	870	892	877	868	894	885	879	848	871	**847**	**809**
23 ...	886	877	890	870	868	898	882	886	**851**	872	864	823
24 ...	**888**	827	879	**858**	880	891	880	891	847	880	877	840
25 ...	884	835	**854**	864	869	894	877	**896**	856	878	880	852
26 ...	884	844	877	878	888	889	887	895	852	871	874	865
27 ...	875	858	872	877	895	895	866	883	861	869	878	863
28 ...	875	839	878	885	886	892	877	877	869	870	877	862
29 ...	884		867	876	884	892	**891**	877	865	875	885	866
30 ...	886		878	877	883	898	870	885	862	874	**888**	866
31 ...	**846**		882		888		868	882		872		874
Monthly Mean .	8,757	8,627	8,740	8,795	8,777	8,827	8,765	8,773	8,682	8,744	8,745	8,656

In the derivation of the daily means of Horizontal Force, the calculated values of the base line of the Horizontal Force Magnetograph given in column 2, tables IV*a* to IV*e*, have been used. These calculated values, reduced to an uniform temperature as referred to in the footnote to table IV*a* are corrected to the mean temperature of the day, which thus gives the correct base line value for the day. The daily mean ordinate derived from twenty-four hourly tabulations of the H. F. Magnetograms, corrected for progressive change by $\frac{1}{24}$ the difference between the initial and the terminal hour (10*h* to 10*h*) are next converted into C. G. S. unit by means of the scale co-efficients for 1 c.m. of ordinate. And finally these converted ordinates added to the corrected base line values referred to above give the absolute values of the daily means of Horizontal Force.

As the calculated base line values in tables IV*a* to IV*e* are derived from observations of H. by both the instruments No. 7 and No. 3 a further correction of 1γ which is on an average equal to half the difference between the values of H. determined by the two instruments has been applied to reduce all the values to Standard Instrument No. 7.

TABLE VIb.—*Daily Means of Horizontal Force.*

36000γ +

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	**879**	869	865	879	883	872	869	864	870	844	876	885
2 ...	867	862	864	883	885	876	869	863	870	856	**885**	873
3 ...	869	869	874	888	873	878	864	869	**883**	859	850	882
4 ...	879	871	**880**	**889**	879	871	868	863	868	861	847	**888**
5 ...	857	880	873	872	**886**	873	880	863	865	868	854	863
6 ...	860	**886**	872	866	877	871	874	869	864	869	864	869
7 ...	855	809	878	873	873	864	867	866	866	**878**	871	869
8 ...	860	840	879	876	878	874	864	871	873	870	867	858
9 ...	849	**732**	875	881	880	883	868	865	883	862	872	863
10 ...	874	771	849	883	877	857	862	864	845	874	827	853
11 ...	**836**	812	847	873	875	866	**816**	867	819	870	844	856
12 ...	843	822	**814**	872	865	866	843	869	**805**	869	850	**850**
13 ...	849	826	850	883	842	873	851	873	841	851	864	856
14 ...	847	796	857	853	850	874	854	868	859	832	873	861
15 ...	846	805	867	864	849	880	866	877	873	824	871	865
16 ...	852	824	864	**847**	860	881	878	**882**	857	840	869	863
17 ...	864	841	867	855	866	882	875	869	854	849	868	856
18 ...	867	846	874	864	867	**892**	875	867	840	851	867	861
19 ...	870	840	868	863	**837**	858	865	875	847	860	865	877
20 ...	868	843	855	869	850	**843**	875	867	856	859	874	858
21 ...	866	847	846	867	868	862	**883**	**837**	859	872	825	867
22 ...	851	842	834	868	856	849	874	848	863	**821**	**830**	872
23 ...	863	852	847	864	864	852	871	851	870	856	836	879
24 ...	863	833	857	874	851	860	872	856	878	859	849	887
25 ...	874	846	852	868	868	861	872	867	868	865	859	883
26 ...	864	854	858	864	866	865	857	864	856	855	867	884
27 ...	872	863	854	856	872	870	862	868	857	826	869	880
28 ...	868	859	873	863	882	863	846	872	864	854	865	878
29 ...	870		874	871	841	869	850	871	871	858	866	874
30 ...	873		872	887	859	881	870	852	867	857	875	869
31 ...	879		879		875		864	856		870		873
Monthly Mean.	8,625	8,371	8,622	8,705	8,663	8,689	8,646	8,649	8,597	8,561	8,596	8,694

TABLE VIc.—*Daily Means of Horizontal Force*

36000 γ +

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	881	872	849	844	867	**854**	861	**889**	869	808	830	859
2 ...	874	880	840	857	853	875	870	878	871	820	841	866
3 ...	871	868	855	861	861	875	877	872	**877**	822	848	865
4 ...	873	855	857	872	861	866	878	859	863	**807**	852	828
5 ...	864	857	856	872	863	867	871	875	788	833	854	**815**
6 ...	867	855	866	855	868	869	867	880	827	829	863	836
7 ...	846	858	872	848	865	866	867	862	835	841	**867**	844
8 ...	847	863	866	853	862	865	873	856	851	841	**780**	846
9 ...	**837**	863	856	865	871	872	874	826	850	853	818	855
10 ...	853	869	865	868	865	875	884	847	819	859	820	856
11 ...	862	860	873	875	849	873	**886**	848	809	862	829	853
12 ...	862	861	871	876	852	**884**	877	840	**725**	827	836	867
13 ...	864	866	880	870	854	869	869	840	794	818	846	841
14 ...	874	880	880	875	857	868	874	846	813	820	841	860
15 ...	869	877	**886**	**830**	864	865	872	853	826	849	848	862
16 ...	873	874	863	841	**874**	*	**842**	861	786	855	859	859
17 ...	871	869	861	846	863	882	852	867	805	863	797	862
18 ...	874	871	876	865	865	867	859	860	829	848	820	866
19 ...	874	869	876	862	866	871	860	**803**	834	855	829	859
20 ...	885	875	868	868	869	864	870	839	840	861	847	863
21 ...	881	**884**	866	**880**	872	869	875	831	848	865	854	867
22 ...	882	868	874	863	873	869	866	839	846	863	862	866
23 ...	**891**	**853**	879	855	843	875	876	851	850	**871**	864	862
24 ...	877	866	875	866	842	884	876	854	850	868	856	864
25 ...	869	866	875	861	829	877	845	853	855	868	856	**873**
26 ...	868	869	823	858	**797**	868	861	863	852	864	856	858
27 ...	873	870	**802**	852	856	868	862	864	856	855	864	856
28 ...	881	869	823	860	852	868	870	872	832	859	861	862
29 ...	847	866	830	861	854	870	867	870	736	866	854	857
30 ...	862		837	865	858	864	865	871	762	864	860	863
31 ...	868		843		862		876	866		820		867
Monthly Mean.	8,684	8,673	8,595	8,608	8,576	8,703	8,685	8,563	8,266	8,463	8,437	8,567

*Owing to loss of curve this day is rejected.

TABLE VId.—*Daily Means of Horizontal Force.*

360000γ +

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	848	826	859	849	865	857	861	861	834	773	839	798
2 ...	839	814	861	858	870	856	862	853	842	784	841	808
3 ...	787	811	864	863	874	862	855	846	843	792	843	828
4 ...	801	833	833	866	875	867	862	856	845	800	846	827
5 ...	816	843	854	862	873	868	863	855	856	804	850	836
6 ...	829	829	835	864	871	867	870	856	852	809	852	835
7 ...	836	837	852	867	872	870	884	866	853	797	839	843
8 ...	840	838	853	871	872	862	865	867	850	785	844	846
9 ...	855	849	856	868	879	868	858	840	849	800	845	850
10 ...	857	842	856	864	876	876	864	855	849	817	844	843
11 ...	855	850	866	864	867	847	875	852	855	815	845	850
12 ...	858	853	867	859	868	854	860	853	861	819	843	853
13 ...	847	852	863	860	876	862	858	859	864	824	848	834
14 ...	845	860	864	871	734	864	859	854	858	831	851	803
15 ...	848	861	863	877	779	857	850	861	852	834	826	830
16 ...	853	864	865	856	809	859	861	867	847	829	832	840
17 ...	858	854	867	855	822	859	860	866	853	825	839	838
18 ...	852	861	843	850	786	858	864	868	861	805	840	841
19 ...	853	870	791	858	796	864	869	851	870	748	842	837
20 ...	857	870	822	862	828	870	871	852	872	792	822	842
21 ...	857	845	822	871	835	877	872	861	828	810	829	824
22 ...	859	835	836	578	835	861	860	853	834	810	830	829
23 ...	872	844	842	870	844	839	848	856	840	751	829	838
24 ...	874	849	848	877	851	851	839	857	850	792	839	845
25 ...	842	852	855	848	865	850	858	857	596	807	842	852
26 ...	839	857	847	836	848	857	856	846	689	815	853	837
27 ...	850	858	849	847	841	867	852	849	751	822	845	842
28 ...	846	853	813	856	850	873	855	850	776	831	844	848
29 ...	838		805	863	854	856	846	813	786	830	850	854
30 ...	825		836	868	857	860	854	826	744	835	761	851
31 ...	806		844		861		860	830		838		848
Monthly Mean.	8,433	8,468	8,462	8,619	8,462	8,613	8,604	8,528	8,253	8,073	8,385	8,370

TABLE VIe.—*Daily Means of Horizontal Force.*

360000γ +

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	840	849	843	814	836	852	854	860	845	830	841	849
2 ...	846	839	853	824	834	860	865	851	840	818	833	841
3 ...	852	840	845	834	839	861	856	842	846	830	857	850
4 ...	843	845	841	824	843	856	866	845	849	815	856	851
5 ...	840	839	837	838	849	859	841	850	853	846	854	856
6 ...	838	849	842	841	851	867	847	856	850	822	858	849
7 ...	843	853	847	847	845	874	846	858	843	832	855	848
8 ...	848	853	847	847	851	868	850	861	847	842	855	856
9 ...	858	852	851	849	855	850	855	857	859	850	850	853
10 ...	852	851	855	858	855	853	850	807	856	856	846	860
11 ...	858	857	856	867	851	856	850	843	850	850	852	860
12 ...	857	860	857	855	858	854	856	845	854	844	855	873
13 ...	849	861	863	854	826	853	856	851	861	832	860	856
14 ...	848	868	859	858	833	854	868	856	855	840	866	849
15 ...	854	867	865	865	840	859	868	848	852	847	863	834
16 ...	858	862	850	855	844	869	865	857	848	850	845	840
17 ...	845	855	852	859	854	874	863	865	850	857	838	847
18 ...	841	842	858	799	826	865	873	860	849	867	826	849
19 ...	844	851	860	832	828	870	867	838	859	822	825	852
20 ...	853	844	826	842	843	833	864	850	859	829	829	838
21 ...	856	842	844	852	851	832	863	839	837	841	844	852
22 ...	847	845	857	857	858	833	868	762	824	840	845	839
23 ...	834	848	859	840	866	838	858	829	838	842	848	845
24 ...	809	853	863	840	829	845	855	826	834	836	846	853
25 ...	793	808	869	848	833	844	856	833	826	822	848	831
26 ...	823	839	871	853	841	849	854	837	830	827	847	844
27 ...	832	840	830	790	840	852	857	852	826	808	847	857
28 ...	835	841	757	819	836	859	871	826	830	824	841	840
29 ...	845		798	828	841	859	848	826	799	831	818	828
30 ...	849		824	833	846	849	853	827	807	835	837	840
31 ...	848		804		839		853	839		839		843
Monthly Mean.	8,432	8,483	8,446	8,407	8,433	8,549	8,579	8,418	8,429	8,363	8,462	8,479

TABLE VIIa.—*Daily Means of Declination (Easterly).*

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1 ...	1 6·1	1 6·8	1 6·4	1 5·7	1 5·8	1 5·2	1 5·3	1 5·2	1 5·3	1 5·4	1 4·3	1 4·6
2 ...	6·4	6·5	6·3	5·7	5·5	6·0	5·4	5·3	4·9	5·1	4·5	4·3
3 ...	6·3	6·3	6·2	5·9	5·6	5·7	5·3	5·4	5·2	5·0	4·4	4·6
4 ...	6·6	6·3	6·5	6·0	5·7	5·7	5·0	5·5	5·2	5·1	4·4	4·6
5 ...	6·3	6·4	6·0	5·9	5·5	5·7	5·3	5·3	5·6	5·1	4·6	4·5
6 ...	6·6	6·4	6·0	5·8	5·6	5·5	5·4	4·8	5·0	4·8	4·5	4·6
7 ...	6·6	6·4	6·1	5·7	5·7	5·9	5·1	5·1	5·1	4·9	4·3	4·4
8 ...	6·4	6·6	6·2	5·2	5·5	5·6	5·0	5·7	4·9	4·6	4·7	5·1
9 ...	6·2	6·6	6·1	6·1	6·0	5·4	5·2	5·6	4·9	4·8	4·3	5·4
10 ...	6·7	6·6	5·9	6·5	5·5	5·3	5·1	5·6	5·0	4·6	4·3	4·9
11 ...	6·4	6·5	5·9	5·9	5·3	5·3	5·6	5·2	5·4	4·7	4·4	4·8
12 ...	6·0	6·5	5·9	5·9	5·5	5·0	5·3	5·7	5·2	4·8	4·7	4·7
13 ...	6·3	6·4	6·1	5·5	5·3	5·3	5·2	5·3	5·1	4·9	4·8	4·8
14 ...	6·2	6·3	6·2	5·9	5·6	5·0	5·4	5·4	4·9	4·7	4·8	4·8
15 ...	6·4	6·8	6·3	5·6	6·1	5·1	5·2	5·1	5·2	4·8	4·7	4·7
16 ...	6·7	6·4	6·4	6·1	6·4	5·2	5·5	5·5	5·2	4·7	4·8	4·8
17 ...	6·2	6·4	6·2	5·7	6·0	5·2	5·4	5·0	5·1	4·8	4·5	4·9
18 ...	6·5	6·3	6·4	5·8	5·7	5·2	5·1	4·9	5·0	4·5	4·7	5·2
19 ...	6·7	6·9	6·3	5·5	5·9	5·3	4·9	5·1	5·5	4·9	4·5	5·1
20 ...	6·8	6·1	6·0	5·6	6·1	5·2	4·9	4·9	4·9	4·5	4·6	4·8
21 ...	6·3	6·3	5·7	5·8	6·0	5·0	4·4	5·1	5·4	4·7	4·7	4·6
22 ...	6·5	6·4	6·0	5·9	5·9	5·2	4·8	5·2	6·0	4·7	5·1	5·5
23 ...	6·0	6·1	6·3	6·1	5·8	5·2	5·2	5·0	5·8	5·0	4·7	5·3
24 ...	6·4	6·9	6·4	6·3	6·0	4·7	5·4	4·9	5·4	4·4	4·8	5·2
25 ...	6·1	6·8	6·6	6·0	5·8	5·2	5·6	4·9	5·6	4·8	4·5	4·8
26 ...	6·4	6·9	6·4	5·9	5·7	5·1	5·3	4·9	5·3	Rejected*	4·7	4·6
27 ...	6·3	6·6	6·4	5·8	5·3	4·9	5·1	5·3	5·1	4·4	4·6	4·8
28 ...	6·4	6·9	6·4	5·6	5·4	4·9	5·4	5·3	5·1	4·5	4·6	5·1
29 ...	6·0		6·1	5·8	5·2	5·3	5·2	5·4	5·2	4·8	4·3	4·3
30 ...	6·4		5·9	5·8	5·4	5·1	5·6	5·3	5·3	4·5	4·2	4·4
31 ...	6·8		5·9		5·4		5·4	5·4		4·7		4·3
Monthly Mean.	1 6·39	1 6·51	1 6·18	1 5·83	1 5·68	1 5·28	1 5·23	1 5·24	1 5·23	1 4·77	1 4·57	1 4·79

In the derivation of the daily means of declination, the calculated values of the base line of the Declination Magnetograph have been used. As referred to in foot-note to table V*a* these values are derived by taking overlapping means of values derived from 4 successive observations with Instrument No. 7 and reducing them to the proper epoch; values for intermediate days being derived by simple interpolation. The daily mean ordinate derived from 24 hourly tabulations of the Declination Magnetograms and corrected for progressive change by $\frac{7}{48}$ the difference between the initial and the terminal hour (10*h* to 10*h*) were next converted into arc by factor 10″·28 which is equal to 1 cm of ordinate on the photographic paper. And finally these converted ordinates added to the daily base line values referred to above gave the absolute values of the daily means of Declination.

* Owing to loss of curve due to the adjustment of the instrument, this day is rejected.

TABLE VII*b*.—*Daily Means of Declination (Easterly).*

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1 ...	1 4·2	1 4·3	**1 4·0**	1 3·8	**1 3·5**	1 3·9	1 3·2	1 3·6	1 3·3	1 3·6	1 3·2	1 3·2
2 ...	4·8	4·5	4·5	4·1	3·8	3·6	3·1	3·7	3·3	3·3	**2·8**	3·2
3 ...	4·4	4·4	4·4	4·1	3·7	3·7	3·5	3·5	3·1	3·3	3·3	2·8
4 ...	4·3	**3·7**	4·4	3·7	3·6	**4·1**	3·4	3·4	3·2	3·3	3·2	**2·6**
5 ...	4·5	4·0	4·3	4·0	3·8	3·9	3·5	3·5	3·3	3·2	3·5	3·2
6 ...	4·8	4·0	4·2	4·1	4·1	3·7	3·1	3·5	3·3	3·2	3·3	2·8
7 ...	4·9	5·2	4·1	4·0	3·7	3·7	3·4	3·6	3·3	3·0	3·1	3·0
8 ...	4·7	4·8	4·2	3·8	3·6	3·6	3·5	3·3	3·2	3·1	3·0	3·5
9 ...	4·8	**6·3**	4·3	3·4	4·0	3·3	3·6	3·9	3·1	3·4	2·8	3·2
10 ...	4·4	5·5	4·7	3·7	4·0	3·6	3·7	3·6	3·8	3·3	3·8	3·5
11 ...	4·8	5·1	4·9	4·1	4·1	3·4	3·8	3·6	3·5	3·2	3·3	3·3
12 ...	4·9	5·0	5·3	4·1	4·1	3·6	3·5	3·5	3·9	**2·8**	3·5	3·4
13 ...	4·9	4·8	4·5	4·1	4·2	3·6	3·8	3·6	3·9	3·1	3·1	**3·7**
14 ...	4·8	5·5	4·7	**4·5**	4·1	3·3	3·6	3·3	3·6	3·8	2·9	3·2
15 ...	4·7	5·2	4·4	4·3	4·4	3·5	3·1	3·2	3·3	3·7	2·8	3·5
16 ...	**5·2**	4·8	4·4	4·3	4·6	**3·0**	3·1	3·5	3·4	3·5	3·2	3·3
17 ...	4·8	4·7	4·5	4·0	4·5	3·1	3·6	3·5	3·5	3·2	2·9	3·3
18 ...	4·9	4·3	4·2	4·2	4·6	3·5	3·3	3·6	**3·9**	3·5	3·0	3·4
19 ...	4·8	4·7	4·8	3·8	**4·7**	4·1	3·8	3·5	3·9	3·3	3·0	3·0
20 ...	4·8	4·5	4·5	3·8	4·5	3·8	3·3	3·5	3·4	3·3	3·2	3·7
21 ...	4·5	4·3	**5·4**	3·8	4·1	3·7	3·3	3·9	3·2	3·1	**3·9**	3·0
22 ...	4·6	4·9	4·9	3·7	4·4	4·0	3·4	3·5	3·1	3·9	3·9	3·2
23 ...	4·7	4·4	4·6	4·0	4·2	4·0	3·4	**4·1**	**3·0**	3·5	3·6	3·1
24 ...	4·7	4·7	4·7	3·7	4·7	3·2	3·3	3·6	3·0	3·6	3·4	2·9
25 ...	4·4	4·4	4·8	3·8	4·2	3·7	**2·9**	3·3	3·0	3·2	3·1	3·2
26 ...	4·6	4·6	4·8	4·0	3·9	3·9	3·5	3·5	3·3	3·7	3·0	3·1
27 ...	4·2	4·3	4·6	4·1	3·9	3·7	3·8	3·3	3·3	**4·2**	2·9	3·0
28 ...	4·9	4·3	4·1	3·9	3·5	3·6	**4·0**	3·2	3·0	3·2	2·9	3·2
29 ...	4·3		4·5	**3·4**	4·1	3·3	3·7	**3·0**	3·1	3·3	2·9	2·9
30 ...	4·4		4·2	3·4	4·2	3·2	3·2	3·5	3·0	3·4	2·9	3·0
31 ...	**4·2**		4·1		3·7		3·3	3·4		3·4		3·0
Monthly Mean.	1 4·64	1 4·69	1 4·52	1 3·92	1 4·08	1 3·61	1 3·44	1 3·51	1 3·34	1 3·37	1 3·18	1 3·17

TABLE VII*c*.—*Daily Means of Declination (Easterly).*

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	° ′	° ′	° ′	°	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1 ...	1 3·0	1 3·3	1 3·5	1 3·1	1 2·8	1 2·0	1 1·9	**1 0·9**	**1 1·5**	1 2·2	1 2·2	1 1·5
2 ...	3·2	3·0	3·3	3·1	2·8	**2·1**	1·4	1·3	1·6	2·3	2·2	1·3
3 ...	3·2	3·0	2·8	3·1	2·6	2·0	1·3	1·3	1·6	1·9	2·1	1·8
4 ...	3·1	**3·5**	3·1	3·2	2·7	2·0	1·6	1·4	1·7	2·0	1·7	1·6
5 ...	3·1	3·2	2·9	3·1	2·6	2·1	1·7	1·3	2·6	1·7	**1·5**	**2·4**
6 ...	3·2	3·5	2·8	3·3	2·5	1·9	1·9	1·2	2·0	1·4	1·6	2·1
7 ...	3·5	3·2	3·0	**3·4**	2·9	2·0	1·4	1·3	2·0	1·5	1·9	2·0
8 ...	3·2	3·1	2·7	3·2	2·5	1·8	1·6	1·8	1·9	1·8	**2·8**	1·9
9 ...	3·3	3·1	3·1	3·0	2·4	1·8	1·7	2·1	1·9	1·6	2·2	1·7
10 ...	3·4	2·7	3·0	3·0	2·4	1·6	1·4	1·9	2·2	1·4	2·3	1·6
11 ...	3·5	2·9	2·8	2·8	2·8	1·7	1·3	1·9	2·0	1·6	2·3	1·4
12 ...	3·4	3·0	2·8	2·8	2·5	1·5	1·4	1·8	3·2	2·1	2·2	1·2
13 ...	3·3	3·2	**2·6**	2·8	2·5	1·8	1·5	1·9	2·8	2·0	1·8	1·6
14 ...	3·0	3·0	2·6	3·0	2·7	1·6	1·4	2·0	2·2	2·1	2·1	1·5
15 ...	3·4	2·9	2·6	3·2	2·7	1·7	1·5	1·6	1·9	1·9	1·9	1·8
16 ...	3·2	2·7	2·8	3·1	2·6	1·8	1·6	1·7	2·4	1·5	1·7	1·8
17 ...	3·1	2·8	2·8	3·0	2·2	1·7	1·7	1·5	2·3	**1·2**	2·7	1·6
18 ...	3·3	2·9	2·7	3·0	2·1	1·5	1·6	1·5	1·8	1·5	2·2	1·3
19 ...	3·2	3·0	3·0	2·6	2·8	1·7	1·4	**2·4**	2·2	1·7	2·1	1·5
20 ...	2·9	2·8	2·9	2·8	2·3	2·0	1·3	1·8	1·8	1·3	1·9	1·4
21 ...	3·0	**2·6**	3·1	2·7	2·2	1·7	1·6	2·1	2·1	1·5	1·7	1·2
22 ...	3·0	3·4	3·0	2·7	2·2	1·6	**1·2**	1·9	1·8	1·6	1·8	**1·1**
23 ...	**2·6**	2·9	2·7	2·4	2·8	1·7	1·4	1·5	1·9	1·4	1·8	1·6
24 ...	3·0	2·9	2·7	**2·4**	2·7	1·4	1·4	1·9	1·8	1·5	1·7	1·4
25 ...	2·9	2·8	2·9	2·8	2·1	**1·3**	**2·3**	2·1	1·7	1·8	1·9	1·2
26 ...	3·0	2·7	3·7	2·8	**3·3**	1·6	1·5	1·5	1·6	1·6	1·8	1·4
27 ...	2·9	2·7	**4·2**	2·9	2·3	1·8	1·5	1·7	1·7	2·0	1·6	1·5
28 ...	2·6	3·0	3·4	2·7	2·5	1·5	1·5	1·1	1·8	1·8	1·6	1·5
29 ...	**3·6**	3·0	3·1	3·2	2·5	1·6	1·6	1·6	**3·7**	1·5	1·8	1·8
30 ...	2·9		3·4	2·6	2·2	1·8	1·5	1·9	3·2	1·4	1·8	1·5
31 ...	3·0		3·3		**1·9**		1·7	1·7		**2·4**		1·2
Monthly Mean.	1 3·13	1 2·99	1 3·01	1 2·93	1 2·51	1 1·74	1 1·54	1 1·66	1 2·10	1 1·72	1 1·96	1 1·56

TABLE VII*d*.—*Daily Means of Declination (Easterly).*

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	1 1·3	1 1·3	1 1·0	1 1·1	1 0·4	0 59·7	1 0·1	0 59·7	1 0·0	1 0·8	0 59·8	**1 0·3**
2	1·4	**1·5**	0·9	**1·1**	0·2	**1 0·2**	0 59·9	**59·5**	0·1	0·6	59·5	0 59·7
3	**2·3**	1·2	1·0	1·0	0·3	0 59·8	59·7	59·8	0 59·7	0·3	59·6	59·6
4	2·0	1·1	1·2	0·9	0·3	1 0·0	59·6	59·7	59·8	0·3	59·6	59·7
5	1·9	0·6	0·9	1·0	0·0	0·0	59·8	1 0·1	59·7	0·3	59·2	59·4
6	1·6	1·4	1·2	0·8	0·3	0 59·7	59·7	0 59·8	59·8	0·1	59·3	59·3
7	1·6	1·4	1·3	0·9	0·4	59·6	59·6	1 0·0	59·9	0·3	59·8	59·2
8	1·2	1·3	1·4	0·6	0 59·9	1 0·1	59·6	0 59·7	59·8	0·2	59·9	59·1
9	1·3	1·4	1·4	0·9	59·8	0 59·7	59·8	59·9	59·7	0·4	59·6	59·2
10	1·2	1·4	1·3	0·5	59·9	59·8	1 0·0	59·9	59·8	0·0	59·6	59·3
11	1·2	1·5	1·1	0·7	59·9	1 0·1	0 59·5	59·9	59·9	0·0	59·6	59·0
12	1·3	1·3	1·0	0·5	1 0·0	0·2	59·8	59·7	59·8	0 59·9	59·6	58·9
13	1·2	1·0	1·0	0·5	0·0	0·0	**1 0·2**	1 0·2	59·7	59·8	59·5	59·0
14	1·1	0·9	1·0	0·6	**1·6**	0 59·8	0 59·9	0 59·8	59·7	59·8	59·5	59·5
15	1·3	0·6	1·0	0·7	1·3	1 0·0	59·9	59·9	59·6	59·9	1 0·0	59·5
16	1·1	0·8	**0·7**	0·6	1·0	0·1	59·9	1 0·0	59·7	**59·5**	0 59·9	59·2
17	1·0	0·6	1·0	0·6	0·7	0·1	1 0·0	0 59·8	59·8	59·7	59·7	59·2
18	1·1	0·5	1·1	0·8	0·5	0·2	0 59·8	59·7	59·6	1 0·5	59·5	59·1
19	1·1	0·5	**2·4**	0·9	1·0	0 59·8	**59·4**	1 0·3	59·6	**1·0**	59·6	58·8
20	0·9	**0·5**	1·2	1·0	0·5	1 0·1	59·9	0·2	**59·5**	0·3	59·9	58·8
21	1·1	1·0	1·5	0·9	0·5	**0 59·5**	59·7	0·0	1 0·0	0 59·9	59·9	59·1
22	0·8	1·0	1·3	**0·5**	0·2	59·8	1 0·0	0 59·8	0 59·9	59·9	59·8	59·2
23	0·6	1·1	1·3	0·7	0·3	1 0·0	0 59·9	1 0·0	59·7	1 0·9	59·6	59·1
24	**0·5**	0·6	1·3	**0·1**	0·6	0 59·7	1 0·2	0 59·8	59·5	0·4	59·6	58·8
25	1·2	0·7	1·3	0·7	0·3	59·9	0·1	59·9	**1 1·9**	0 59·9	59·5	**58·6**
26	1·0	1·1	1·6	0·5	0·5	1 0·0	0 59·9	1 0·2	1·5	59·9	59·0	58·8
27	1·1	1·4	1·3	0·8	0·4	0 59·8	59·9	0·2	0·9	59·9	59·4	58·9
28	0·9	1·2	1·3	0·1	0·0	59·5	59·0	0 59·9	1·0	59·8	**59·2**	58·9
29	1·2		1·6	0·3	0 59·9	59·8	1 0·0	**1 0·6**	0·8	59·8	59·5	58·9
30	1·4		1·6	0·2	**59·7**	1 0·0	0·2	0·4	1·1	59·9	**1 0·8**	58·7
31	1·9		1·3		59·8		0 59·8	0·1		59·5		58·8
Monthly Mean.	1 1·25	1 1·03	1 1·24	1 0·68	1 0·33	0 59·92	0 59·85	0 59·95	1 0·05	1 0·11	0 59·63	0 59·15

TABLE VII*e*.—*Daily Means of Declination (Easterly).*

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	0 58·9	0 58·4	0 58·7	0 58·7	0 57·9	0 57·9	0 57·7	0 57·3	0 57·1	0 57·0	0 56·6	0 56·7
2	58·8	58·9	58·5	**59·0**	**58·4**	57·6	57·4	57·8	57·6	**57·7**	57·0	56·8
3	58·6	58·5	58·7	58·8	58·0	57·2	57·8	57·7	57·6	57·5	56·8	56·5
4	58·9	58·5	58·7	58·9	57·6	57·7	57·8	58·1	57·3	57·2	56·6	56·6
5	58·7	58·3	58·9	58·6	57·9	57·6	**58·3**	57·7	57·0	56·9	56·7	56·4
6	59·0	58·4	58·7	58·7	57·7	**57·2**	57·9	57·3	57·1	57·2	56·8	56·6
7	58·7	58·4	58·6	58·4	57·8	57·3	57·8	57·6	57·4	57·2	56·6	56·6
8	58·6	58·4	58·7	58·4	57·9	57·2	57·8	57·4	57·4	57·0	56·6	56·4
9	58·6	58·5	58·6	58·5	57·8	57·6	57·9	57·3	57·0	57·0	56·6	56·4
10	58·6	58·4	58·5	58·3	57·8	57·8	57·7	57·9	57·1	56·9	56·7	56·6
11	58·7	58·2	58·6	58·0	57·8	58·1	58·0	57·5	56·9	57·4	56·6	56·2
12	58·6	58·3	58·7	58·4	57·7	57·9	**57·3**	57·4	**56·3**	56·9	**56·3**	**56·0**
13	58·8	58·4	58·4	58·2	57·8	57·7	57·6	57·7	57·1	57·1	56·4	56·0
14	58·8	58·2	58·4	58·3	57·6	57·8	57·8	57·6	57·2	56·8	56·3	56·2
15	58·8	58·3	58·3	58·0	57·7	57·8	57·7	57·7	57·0	56·9	56·4	56·6
16	58·5	58·4	58·7	57·9	58·1	57·4	57·7	57·3	57·1	56·8	56·5	56·5
17	58·6	58·3	58·8	**57·8**	57·7	57·2	57·6	57·4	57·1	56·7	56·5	56·4
18	58·9	58·4	58·3	59·0	58·0	57·2	57·6	57·5	57·1	**56·6**	57·1	56·2
19	58·5	**58·1**	58·5	58·4	58·0	57·5	57·3	57·8	56·9	57·1	57·2	56·4
20	58·7	58·5	59·1	58·3	57·6	**58·2**	57·7	57·8	57·0	57·0	57·0	**56·8**
21	**58·3**	58·9	58·4	57·9	57·9	58·0	57·4	58·0	57·6	57·0	56·7	56·3
22	58·7	58·7	58·4	58·0	**57·2**	58·1	57·6	**58·3**	57·3	57·1	56·7	56·6
23	58·5	58·7	58·7	58·0	57·6	57·9	58·0	57·3	57·2	57·2	56·5	56·3
24	**59·1**	58·9	58·5	58·1	58·2	57·9	57·7	57·7	57·4	56·9	56·7	56·3
25	59·1	**59·5**	**58·1**	58·1	58·1	57·9	57·7	57·7	57·6	57·2	56·8	56·6
26	58·9	58·7	58·1	58·0	58·1	57·5	57·5	57·6	57·4	56·8	56·8	56·3
27	58·8	59·0	58·7	58·9	58·2	57·7	58·0	**57·2**	57·4	57·2	56·4	56·2
28	58·8	58·5	**59·5**	58·0	58·2	57·6	57·7	57·6	57·4	57·1	56·8	56·4
29	58·9		59·2	58·3	57·5	57·5	57·7	57·3	**58·1**	57·0	**57·3**	56·4
30	58·8		58·9	58·2	57·6	57·4	57·7	57·7	57·6	56·9	56·8	56·2
31	58·7		59·1		57·6		57·7	57·5		56·8		56·3
Monthly Mean.	0 58·74	0 58·52	0 58·65	0 58·34	0 57·84	0 57·65	0 57·71	0 57·60	0 57·26	0 57·04	0 56·69	0 56·41

TABLE VIII.—*Monthly means of the magnetic elements determined from the absolute observations of Horizontal Force, Declination and Inclination and reduced to the mean monthly tabulations of the magnetograms.*

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
					Horizontal Force.								
Unity = 0·1γ													
1906 ...	368766	368650	368736	368795	368771	368864	368775	368761	368686	368744	368751	368641	368745
1907 ...	368614	368419	368627	368688	368659	368708	368664	368683	368588	368527	368610	368684	368623
1908 ...	368702	368682	368600	368582	368599	368688	368676	368543	368273	368473	368405	368582	368567
1909 ...	368420	368482	368470	368610	368462	368612	368604	368507	368235	368076	368381	368394	368438
1910 ...	368426	368488	368448	368412	368420	368557	368549	368396	368415	368360	368461	368489	368452
					Declination (Easterly).								
	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″
1906 ...	1 6 25	1 6 31	1 6 7	1 5 54	1 5 48	1 5 14	1 5 15	1 5 17	1 5 13	1 4 49	1 4 37	1 4 43	1 5 29
1907 ...	1 4 39	1 4 52	1 4 34	1 4 7	1 3 59	1 3 26	1 3 26	1 3 35	1 3 22	1 3 24	1 3 9	1 3 0	1 3 48
1908 ...	1 3 10	1 2 58	1 2 58	1 2 57	1 2 32	1 1 45	1 1 33	1 1 42	1 2 4	1 1 43	1 1 59	1 1 35	1 2 15
1909 ...	1 1 17	1 0 59	1 1 14	1 0 43	1 0 19	0 59 53	0 59 52	0 59 57	1 0 3	1 0 3	0 59 43	0 59 11	1 0 16
1910 ...	0 58 44	0 58 30	0 58 41	0 58 23	0 57 50	0 57 38	0 57 44	0 57 36	0 57 17	0 57 3	0 56 42	0 56 27	0 57 43
					Vertical Force (Dip Circle).								
Unity = 0·1γ													
1906 ...	157231	157332	157378	157453	157570	157608	157637	157792	157773	157814	157899	157926	157618
1907 ...	157974	158062	158124	158294	158375	158394	158487	158445	158585	158714	158763	159000	158435
1908 ...	158756	158913	159085	159085	159083	159191	159209	159347	159447	159476	159417	159567	159218
1909 ...	159702	159724	159681	159823	160010	160151	160194	160234	160260	160275	160372	160476	160075
1910 ...	160447	160627	160751	160855	160950	160933	160936	161092	161245	161341	161521	161437	161011
					Inclination (Dip Circle).								
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1906 ...	23 5·5	23 6·7	23 6·8	23 7·2	23 8·2	23 8·1	23 8·7	23 10·0	23 10·0	23 10·2	23 10·8	23 11·4	23 8·6
1907 ...	11·9	13·2	13·0	14·2	14·9	14·9	15·8	15·4	16·8	18·0	18·1	19·7	15·5
1908 ...	18·1	19·0	20·7	20·7	20·7	21·2	21·4	22·9	24·6	24·2	23·9	24·5	21·8
1909 ...	26·1	26·1	25·8	26·4	28·4	29·0	29·4	30·0	31·2	31·8	31·5	32·2	29·0
1910 ...	31·9	33·2	34·3	35·0	35·9	35·3	35·4	37·1	38·3	39·2	40·3	39·5	36·3
					Vertical Force (Inductor).								
Unity = 0·1γ													
1909 ...	159836	159887	159856	160213	160292	160275	160413	160429	160679	160565	160677	160824	160329
1910 ...	160928	160925	161101	161222	161275	161342	161494	161622	161684	161778	161866	161961	161433
					Inclination (Inductor).								
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1909 ...	23 27·2	23 27·4	23 27·2	23 29·5	23 30·6	23 30·0	23 31·1	23 31·5	23 34·4	23 34·1	23 33·9	23 34·9	23 31·0
1910 ...	35·7	35·5	37·0	38·1	38·5	38·5	39·7	41·3	41·7	42·6	43·0	43·6	39·6

Monthly means given in this table are derived in the usual way from weekly absolute observations of Horizontal Force, Declination and Inclination printed in tables I*a*, II*a*, III*a* and III*b*; *vide* also means of Horizontal Force and Declination in tables VI and VII. The small differences occasionally noted are due to the process adopted in the derivation of the latter which eliminates effects due to the probable errors of the absolute determinations and to the difference in the epochs of the mean date of the month and the mean date of the observations.

TABLE IXa.—*Showing the Magnetic Character of each day during the year 1906.*

Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	C	S	S	S	S	S	S	C	S	M	C	S
2 ...	S	S	S	S	C	M	C	S	S	S	C	S
3 ...	C	S	C	S	C	S	S	C	S	S	C	S
4 ...	C	S	S	S	C	S	C	C	S	C	C	C
5 ...	C	C	S	C	C	S	S	C	S	S	S	C
6 ...	C	S	S	C	S	C	S	C	S	C	S	S
7 ...	C	S	S	C	S	C	C	S	S	C	S	S
8 ...	S	S	S	S	S	S	C	M	C	C	S	M
9 ...	S	S	S	S	S	S	S	S	S	C	S	M
10 ...	C	S	S	S	C	S	S	S	C	C	S	S
11 ...	C	C	S	S	S	S	M	S	C	S	S	C
12 ...	S	C	C	S	C	C	S	M	S	S	S	S
13 ...	S	C	S	S	C	S	S	S	C	S	S	C
14 ...	S	S	S	S	S	S	S	S	S	S	C	S
15 ...	S	S	S	C	M	S	S	S	S	C	C	S
16 ...	C	S	C	C	S	S	C	C	S	S	S	M
17 ...	C	C	S	C	C	S	C	S	C	S	S	M
18 ...	C	C	S	C	C	C	C	C	S	C	S	S
19 ...	S	M	C	S	S	C	C	C	C	S	S	S
20 ...	C	S	C	C	S	C	C	S	S	S	C	C
21 ...	S	S	C	S	S	C	S	C	S	S	S	S
22 ...	S	C	C	S	C	C	C	C	S	S	M	G
23 ...	C	S	C	S	C	C	S	C	M	S	S	M
24 ...	C	M	S	S	S	S	S	S	S	S	S	S
25 ...	C	S	S	S	C	S	S	S	S	S	S	C
26 ...	C	S	S	C	C	S	S	S	S	S	S	S
27 ...	S	C	C	C	S	C	S	S	S	S	C	S
28 ...	S	S	C	S	S	S	S	S	C	C	C	S
29 ...	S		C	S	C	C	S	S	S	S	C	C
30 ...	C		C	S	C	C	M	S	S	S	C	C
31 ...	M		C		C		S	S		C		C
	Total number of days in each class.											
Calm ...	17	8	13	10	16	12	10	11	7	10	11	9
Small ...	13	18	18	20	14	17	19	18	22	20	18	16
Moderate ...	1	2	0	0	1	1	2	2	1	1	1	5
Great ...	0	0	0	0	0	0	0	0	0	0	0	1
Very Great ...	0	0	0	0	0	0	0	0	0	0	0	0
Sum ...	31	28	31	30	31	30	31	31	30	31	30	31
	Selected Quiet days.											
	1	5	3	5	2	6	7	1	8	4	1	4
	11	12	12	7	5	7	8	16	10	6	4	5
	16	13	16	17	17	12	19	18	11	8	15	13
	20	18	22	18	23	22	20	19	19	28	27	25
	30	22	27	26	30	29	22	23	28	31	30	31
Mean ...	15·6	14·0	16·0	14·6	15·4	15·2	15·2	15·4	15·2	15·4	15·4	15·6

C = Calm ; S = Small ; M = Moderate ; G = Great ; V. G. = Very Great. Disturbances are determined from the Horizontal Force traces. Days are reckoned from midnight to midnight.

TABLE IX*b*.—*Showing the Magnetic Character of each day during the year 1907.*

Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	S	S	S	C	C	S	S	M	S	M	C	C
2	S	S	S	C	C	C	S	S	C	S	S	C
3	C	C	C	C	S	C	S	S	C	C	S	C
4	C	C	S	C	S	C	S	S	S	C	S	M
5	M	C	C	S	S	C	S	S	S	C	C	S
6	S	C	S	S	S	C	S	S	C	C	S	S
7	S	M	S	S	S	C	S	C	C	S	S	S
8	M	M	C	C	C	S	S	C	C	S	S	C
9	M	G	C	C	S	S	S	C	C	S	C	C
10	S	G	M	C	S	S	S	C	C	C	C	C
11	G	M	S	C	S	S	S	C	C	C	M	C
12	S	M	M	S	S	S	S	C	C	C	S	S
13	S	S	S	S	S	S	S	C	C	C	S	C
14	S	M	C	S	S	S	S	C	C	C	S	C
15	M	S	C	S	S	S	C	C	C	C	C	C
16	S	S	C	S	S	S	C	C	C	C	C	C
17	S	S	C	S	S	S	C	C	C	C	G	S
18	S	C	C	S	S	S	C	C	C	C	S	S
19	C	C	C	C	S	S	C	C	C	C	S	C
20	C	S	C	C	S	S	C	C	C	C	C	C
21	C	S	C	C	S	S	C	C	C	C	C	C
22	S	S	S	C	S	S	C	C	C	C	C	C
23	S	S	S	C	S	S	C	C	C	C	C	C
24	S	S	S	C	S	S	C	C	C	C	C	C
25	S	S	S	C	S	S	C	C	C	C	C	C
26	S	S	S	C	S	S	C	C	C	C	C	C
27	S	S	C	S	S	S	C	C	C	C	C	C
28	S	S	C	S	S	S	C	C	C	C	C	C
29	C	S	C	S	M	C	C	C	C	C	C	C
30	C	S	C	C	C	S	C	M	C	C	C	C
31	S	S	C	S	S	S	C	S	S	C	C	C
Total number of days in each class.												
Calm	5	5	14	13	8	10	12	7	9	9	12	18
Small	21	16	14	17	22	18	17	22	19	16	16	13
Moderate	4	5	3	0	1	2	2	2	2	6	2	0
Great	1	2	0	0	0	0	0	0	0	0	0	0
Very Great	0	0	0	0	0	0	0	0	0	0	0	0
Sum	31	28	31	30	31	30	31	31	30	31	30	31
Selected Quiet days.												
	3	4	5	2	2	2	13	6	3	5	1	3
	4	5	9	9	8	3	14	7	9	7	5	9
	19	6	18	10	9	16	16	12	14	18	18	17
	21	19	23	24	27	27	17	27	23	19	20	22
	29	27	27	30	30	29	20	28	24	31	30	24
Mean	15·2	12·2	16·4	15·0	15·2	15·4	16·0	16·0	14·6	16·0	14·8	15·0

TABLE IX*c*.—*Showing the Magnetic Character of each day during the year 1908.*

Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	C	C	S	S	S	S	C	S	C	S	S	C
2	S	C	S	C	M	M	C	S	C	S	S	C
3	S	M	S	C	S	S	C	S	S	S	S	M
4	S	S	S	C	S	M	C	S	S	M	C	S
5	S	M	S	C	S	S	C	C	G	M	C	S
6	S	S	C	S	C	S	C	S	M	S	C	S
7	S	S	S	S	C	S	C	S	S	S	S	S
8	S	S	M	S	C	S	C	C	M	S	C	S
9	M	S	S	S	C	S	C	S	S	C	C	C
10	C	S	S	S	S	S	C	M	S	C	C	C
11	S	S	C	C	S	S	C	S	S	M	C	C
12	S	S	C	C	S	S	C	S	G	S	C	C
13	S	S	C	C	S	S	C	S	S	C	C	C
14	C	S	C	C	S	S	C	S	S	C	C	C
15	C	S	C	C	S	S	C	S	C	C	C	C
16	C	S	C	C	S	S	C	S	M	C	C	C
17	C	S	C	C	S	S	C	S	S	C	C	C
18	C	C	C	C	S	S	C	S	S	C	C	C
19	C	C	C	C	S	S	C	S	S	C	C	C
20	C	C	C	C	S	S	C	S	S	C	C	C
21	C	C	C	C	S	S	C	S	S	C	C	C
22	C	M	C	C	S	S	C	S	C	C	C	C
23	C	S	C	C	S	S	C	S	C	C	C	C
24	C	S	C	C	S	S	C	S	C	C	C	C
25	C	S	C	C	S	S	C	S	C	C	C	C
26	C	S	G	C	S	S	C	S	C	C	C	C
27	C	S	M	C	S	S	C	S	C	C	C	C
28	C	S	S	C	M	S	C	S	S	C	C	C
29	M	S	S	C	S	S	C	S	M	C	C	C
30	S	S	S	C	S	S	C	S	G	C	C	C
31	S	S	S	C	S	S	C	S	G	M	C	C
Total number of days in each class.												
Calm	11	9	9	10	9	10	21	6	8	13	12	17
Small	18	17	19	19	19	19	9	21	14	15	16	13
Moderate	2	3	2	1	3	1	1	4	4	3	1	1
Great	0	0	1	0	0	0	0	0	4	0	1	0
Very Great	0	0	0	0	0	0	0	0	0	0	0	0
Sum	31	29	31	30	31	30	31	31	30	31	30	31
Selected Quiet days.												
	1	2	6	2	6	5	2	5	1	9	4	2
	14	14	14	16	15	10	8	6	14	10	5	11
	17	15	15	13	16	11	14	16	15	11	16	16
	20	19	18	20	19	23	23	24	21	23	23	21
	26	21	24	30	22	28	31	27	26	25	27	28
Mean	15·6	14·2	15·4	15·0	15·6	15·4	15·6	15·6	15·4	15·6	15·0	15·6

C.=Calm; S.=Small; M =Moderate; G.=Great; V. G.=Very Great. Disturbances are determin d from the Horizontal Force traces. Days are reckoned from midnight to midnight.

TABLE IX*d*.—*Showing the Magnetic Character of each day during the year 1909.*

Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	G	S	C	C	S	S	S	C	S	S	C	M
2	M	S	S	C	S	S	C	S	S	S	C	M
3	G	S	S	C	S	C	C	S	M	S	C	S
4	M	S	S	C	S	C	C	S	S	S	C	S
5	S	S	S	C	S	C	C	S	S	C	C	S
6	C	S	S	C	S	C	C	S	S	C	C	S
7	C	S	S	C	C	C	C	S	S	C	C	C
8	C	C	S	C	C	C	C	S	S	C	C	C
9	C	C	S	C	C	C	C	S	S	C	C	C
10	C	C	C	S	C	C	C	S	S	C	C	C
11	C	C	C	S	C	C	C	S	S	C	C	C
12	C	C	C	S	C	C	C	S	S	C	C	C
13	M	C	C	S	C	C	C	S	S	C	C	S
14	S	C	C	S	G	C	C	S	S	C	C	S
15	S	C	C	S	M	C	C	S	S	C	C	S
16	C	C	C	S	S	C	C	S	S	C	C	S
17	C	C	C	S	S	C	C	S	S	C	C	S
18	C	S	M	S	M	C	C	S	C	C	M	S
19	C	S	G	S	M	C	C	S	C	C	S	S
20	C	S	S	C	S	C	C	S	C	C	S	S
21	C	S	M	C	S	C	C	S	M	C	S	S
22	C	S	S	C	S	C	C	S	S	C	S	S
23	C	S	S	C	S	C	C	S	S	C	S	S
24	C	S	S	C	C	C	C	S	S	C	S	S
25	C	S	S	C	C	C	C	S	S	C	S	S
26	S	S	S	C	S	C	C	S	V.G	C	S	S
27	S	C	S	C	S	C	C	S	G	C	S	S
28	M	S	S	C	S	C	C	S	S	C	S	S
29	S	M	S	C	S	C	C	S	S	C	S	S
30	M	M	S	C	S	C	C	S	S	C	S	S
31	M	M	C	C	S	S	C	C	G	S	S	S
Total number of days in each class.												
Calm	12	13	12	16	9	13	16	10	10	12	14	12
Small	10	14	15	14	18	16	15	19	15	16	13	17
Moderate	7	1	3	0	3	1	0	2	2	2	2	2
Great	2	0	1	0	1	0	0	0	2	1	1	0
Very Great	0	0	0	0	0	0	0	0	1	0	0	0
Sum	31	28	31	30	31	30	31	31	30	31	30	31
Selected Quiet days.												
	7	11	9	6	7	6	6	6	14	5	4	5
	11	12	10	8	10	9	7	15	12	14	10	8
	17	15	15	15	12	13	18	16	13	15	13	11
	20	16	16	21	24	20	19	17	18	17	24	24
	22	19	24	22	25	27	26	24	20	28	25	29
Mean	15·4	14·6	14·8	14·4	15·6	15·0	15·2	15·6	14·8	15·8	15·2	15·4

TABLE IX*e*.—*Showing the Magnetic Character of each day during the year 1910.*

Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	S	C	S	M	S	S	C	S	S	C	C	S
2	S	C	S	S	S	C	C	S	S	S	S	S
3	C	S	S	S	S	C	C	S	S	S	S	S
4	S	S	S	M	S	C	C	S	S	M	S	S
5	S	S	S	C	S	C	C	S	S	S	S	S
6	S	C	S	C	C	C	C	S	S	M	S	S
7	C	C	S	C	C	C	C	S	S	S	S	S
8	C	C	S	C	C	S	C	S	S	S	S	S
9	C	S	S	C	S	C	C	S	S	C	S	C
10	C	S	S	C	S	C	C	S	S	C	S	C
11	C	S	S	C	S	C	C	S	S	C	S	C
12	S	C	S	C	C	S	C	S	C	S	S	C
13	S	C	S	C	M	S	C	S	S	S	S	C
14	S	C	S	C	S	C	C	S	S	S	S	C
15	S	S	S	C	S	C	C	S	S	S	S	M
16	C	S	S	C	S	C	C	S	S	C	S	S
17	M	S	S	C	S	C	C	S	S	C	C	C
18	S	S	S	C	M	C	C	S	C	C	M	S
19	S	S	C	C	S	C	C	M	C	C	S	S
20	S	C	M	C	S	C	C	S	C	C	M	S
21	S	C	S	C	S	C	C	S	C	C	S	S
22	S	C	S	C	S	C	C	G	C	C	S	S
23	S	C	S	C	S	C	C	S	S	C	S	S
24	S	C	S	C	M	C	C	S	S	C	S	S
25	M	C	S	C	S	C	C	S	M	C	S	S
26	S	C	S	C	S	C	C	S	S	C	S	S
27	S	C	S	C	S	C	C	C	S	C	S	S
28	S	S	S	C	S	C	C	M	S	C	S	S
29	C		S	C	S	C	C	M	S	C	S	S
30	C		S	C	S	C	C	S	S	C	S	S
31	C		M	C	S	S	C	C	M	S	C	S
Total number of days in each class.												
Calm	11	9	7	14	7	13	8	9	6	6	5	7
Small	18	17	21	11	21	17	23	18	22	21	24	23
Moderate	2	2	2	5	3	0	0	3	2	4	1	1
Great	0	0	1	0	0	0	0	1	0	0	0	0
Very Great	0	0	0	0	0	0	0	0	0	0	0	0
Sum	31	28	31	30	31	30	31	31	30	31	30	31
Selected Quiet days.												
	3	1	8	8	6	4	2	7	8	1	1	10
	8	8	10	10	8	5	13	9	12	10	12	12
	16	13	12	11	12	18	14	16	17	17	13	17
	21	19	24	21	23	19	18	17	18	18	23	18
	31	27	25	25	30	28	28	27	19	31	24	24
Mean	15·8	13·6	15·8	15·0	15·8	14·8	15·0	15·2	14·8	15·4	14·6	16·2

C. = Calm; S. = Small; M. = Moderate; G. = Great; V. G. = Very Great. Disturbances are determined from the Horizontal Force traces. Days are reckoned from midnight to midnight.

TABLE IX*f*.—*Showing the Magnetic Character of each day and the difference of the daily mean of H from that of the preceding day. (Continuation of table 381 in "Colaba Magnetic Data" 1846—1905.)*

Unity = 1γ.

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	Ca 0	Sa +10	S +20	Ca + 2	Ca + 5	S + 5	Ca −11	Ca + 3	S 0	Sa − 1	C + 1	Ca + 1
2	Ca − 2	S +10	C + 6	S + 2	Ca − 1	Sa −58	Ca − 7	C + 7	S − 6	S + 5	C + 7	Ca − 8
3	Ca − 2	S + 2	S +13	S 0	C − 1	Sa +32	Ca + 6	Ca + 4	S − 4	S + 1	C + 4	Ca − 8
4	Ca − 5	S + 7	S −12	S − 6	C + 3	S + 1	Ca − 4	C − 1	S −16	S + 1	Ca − 3	Ca + 3
5	Ca + 5	S + 4	S − 3	C + 4	C + 6	Ca + 6	S −14	C + 3	S + 8	Ca + 2	C −21	C + 3
6	Ca − 4	Sa −13	S + 6	C − 3	S + 5	Ca + 1	S − 7	C + 6	S + 6	C + 8	Ca +18	S + 6
7	S + 6	S + 5	S − 9	C + 5	Ca − 4	S + 1	C +13	M −16	Ca + 3	C + 4	Ca + 5	S + 1
8	Ca − 5	S + 4	Sa +11	S +11	S −10	S − 8	Ca − 1	Sa −16	Ca + 4	C + 1	Ca −20	M −31
9	S + 7	S + 3	Sa − 5	Sa −33	S − 6	Ca + 2	S + 9	S + 8	C 0	C + 3	C + 8	S −27
10	Ca − 2	S − 5	S + 5	S − 1	Ca +12	C +15	S − 7	Ca + 2	C + 1	Ca − 4	S + 9	Ca +33
11	Ca + 5	Ca + 4	S + 5	S − 1	S − 4	S − 2	Sa − 8	S + 9	Ca 0	Ca − 6	S − 4	C +5
12	S + 4	Ca 0	S + 5	Ca + 9	Ca + 6	C + 1	S −11	M −18	Ca 0	S −14	Ca − 1	S − 4
13	S − 6	C + 1	S − 6	S +13	S + 9	S + 3	S +14	S − 5	Ca − 4	S + 5	Ca − 4	C + 6
14	S − 7	S + 7	S − 8	Ca − 1	S + 1	Ca 0	Ca + 2	S +12	S + 5	S + 6	C + 5	S + 6
15	S − 3	S −33	Ca 0	C + 4	M −74	S + 8	C − 3	Ca + 5	S − 4	Ca + 8	Ca − 1	S + 1
16	C + 5	S − 5	Ca 0	C + 4	S +30	S −13	C + 4	Ca 0	S − 4	S + 3	Ca − 2	Sa −12
17	C + 4	Ca +17	S +15	C + 1	Ca +11	Ca − 5	C + 5	Ca + 5	Ca + 2	C − 6	S + 9	S − 8
18	Ca − 3	S + 6	S − 8	Ca − 5	Ca + 5	Ca 0	Ca + 8	C + 4	C − 2	Ca + 8	S −12	Ca + 9
19	S −17	M −42	C +10	Ca − 8	S − 5	C + 2	C − 3	Ca + 3	C + 5	S −19	Ca + 4	Ca + 5
20	C + 1	S +25	Ca + 6	Ca +13	S −10	C + 8	Ca + 3	Ca − 3	S 0	S + 9	C + 2	Ca + 4
21	S + 6	S +14	Ca + 3	Ca − 8	Ca + 7	C + 3	Ca − 7	Ca − 3	S + 3	S + 5	Sa −17	Sa − 3
22	S +15	S + 3	C − 1	S − 7	C + 6	C + 4	C + 6	C + 2	M −31	S −10	S −12	Ma −61
23	Ca + 5	S + 7	C − 2	S − 7	C 0	C + 4	S − 3	C + 7	S −17	S + 1	Ca +17	S +14
24	C + 2	M −50	S −11	S −12	Ca +12	Ca − 7	Ca − 2	Ca + 5	S +16	S + 8	S +13	S +17
25	C − 4	Sa + 8	Sa −25	S + 6	Ca −11	Ca + 3	Ca − 3	S + 5	S + 9	Ca − 2	S + 9	C +12
26	Ca 0	Sa + 9	S +23	C +14	Ca +19	S − 5	S +10	S − 1	Sa − 4	S − 7	S −12	S +13
27	S − 9	S +14	Ca − 5	C − 1	S + 7	C + 6	S −21	S −12	Ca + 9	S − 2	C + 4	S − 2
28	Ca 0	Sa −19	Ca + 6	Sa + 8	Ca − 9	Ca − 3	S +11	S − 6	S + 8	S + 1	C − 1	S − 1
29	Ca + 9		Ca −11	S − 9	Ca − 2	C 0	Sa +14	S 0	S − 4	Ca + 5	C + 8	C + 4
30	C + 2		C +11	Ca + 1	C − 1	Ca + 6	Sa −21	Ca + 8	Sa − 3	S − 1	Ca + 3	C + 0
31	Sa −40		C + 4		C + 5		Ca − 2	S − 3		Ca − 2		C + 8
Sum without regard to sign	185	327	255	199	287	212	240	182	178	158	236	316

Total number of days in each class.

C	6	1	6	8	7	9	6	7	4	5	10	7
Ca	14	3	7	8	13	10	12	11	7	8	11	8
S	10	17	15	12	10	9	10	10	16	17	8	12
Sa	1	5	3	2	...	2	3	1	2	1	1	2
M	...	2	...	...	1	...	...	2	1	...	...	1
Ma	...	...	...	...	...	...	...	...	...	...	...	1
G	...	...	...	...	...	...	...	...	...	...	...	...
V.G.	...	...	...	...	...	...	...	...	...	...	...	...
Sum	31	28	31	30	31	30	31	31	30	31	30	31

C = Calm ; S = Small ; M = Moderate ; G = Great ; VG Very Great.

The character of the disturbances is determined from the Horizontal Force Traces.

The suffix *a* denotes intermediate conditions of activity.

Days are reckoned from 10 A.M. to 10 A.M. of the following day.

TABLE IX*g*.—*Showing the Magnetic Character of each day and the difference of the daily mean of H from that of the preceding day.*

Unity = 1γ.

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	S + 5	Ca − 10	S + 6	C 0	C − 4	S − 3	S 12	S 0	Ca +14	S −23	C + 6	C +10
2	Ca −12	S − 7	Ca − 1	C + 4	C + 2	Ca + 4	S 0	S − 1	C 6	S +12	Ca + 9	C −12
3	C + 2	Ca + 7	C +10	C + 5	Ca −12	S + 2	S − 5	S + 6	Ca +13	Ca + 3	S −35	C + 9
4	Ca +10	C + 2	S + 6	Ca + 1	C + 6	S − 7	C + 4	S − 6	Ca −15	C + 2	Ca − 3	S + 6
5	Sa −22	C + 9	S − 7	S −17	C + 7	Ca + 2	Ca +12	Ca 0	Ca − 3	C + 7	Ca + 7	Ca −25
6	C + 3	Ca + 6	S − 1	S − 6	S − 9	Ca − 2	Ca − 6	Ca + 6	S − 1	C + 1	Ca +10	Ca + 6
7	S − 5	M − 77	S + 6	C + 7	Ca − 4	Ca − 7	S − 7	Ca − 3	Ca + 2	C + 9	S + 7	S 0
8	Sa + 5	Sa + 31	Ca + 1	C + 3	C + 5	C +10	S − 3	S + 5	C + 7	Ca − 8	S − 4	Ca −11
9	S −11	G −108	Ca − 4	C + 5	C + 2	S + 9	Ca + 4	Ca − 6	Ca +10	Ca − 8	Ca + 5	C + 5
10	S +25	Sa + 39	M −26	C + 2	S − 3	S −26	Sa − 6	Ca − 1	M −38	Ca +12	S −45	S −10
11	Ma −38	Sa + 41	Sa − 2	Ca −10	S − 2	S + 9	S −46	Ca + 3	S −26	S − 4	S +17	S + 3
12	S + 7	S + 10	S −33	C − 1	S −10	S 0	Ca +27	C + 2	S −14	Ca − 1	Ca + 6	S − 6
13	S + 6	S + 4	Ca +36	Ca +11	S −23	Ca + 7	C + 8	C + 4	C +36	Sa −18	C +14	S + 6
14	Sa − 2	Ma − 30	C + 7	S −30	S + 8	C + 1	Ca + 3	Ca − 5	C +18	Sa −19	C + 9	Ca + 5
15	Sa − 1	S + 9	C +10	Ca +11	S − 1	C + 6	C +12	Ca + 9	Ca +14	S − 8	Ca − 2	C + 4
16	S + 6	Ca + 19	C − 3	S −17	S +11	C + 1	C +12	Ca + 5	Sa −16	S +16	Ca − 2	C − 2
17	Ca +12	S + 17	C + 3	Ca + 8	Ca + 6	C + 1	C − 3	Ca −13	M − 3	Ca + 9	Ca − 1	Ca − 7
18	Ca + 3	C + 5	C + 7	S + 9	S + 1	S +10	C 0	Ca − 2	S −14	C + 2	C − 1	C + 5
19	Ca + 3	Ca − 6	Ca − 6	Ca − 1	S −30	Sa −34	C −10	S +18	S + 7	C + 9	C − 2	Ca +16
20	Ca − 2	S + 3	Ca −13	Ca + 6	S +13	Ca −15	C +10	S − 8	S +19	Ca − 1	C + 9	S −19
21	C − 2	S + 4	M − 9	C − 2	Ca +18	S +19	C + 8	S −30	Ca + 3	Ca +13	Sa −49	Ca + 9
22	Ca −15	S − 5	S −12	Ca + 1	S −12	Sa −13	Ca − 9	S +11	C + 4	Sa −51	Sa − 5	Ca + 5
23	Ca +12	S + 10	C +13	Ca − 4	Ca + 8	Ca + 3	C − 3	S + 3	C + 7	Ca +35	Ca +16	Ca + 7
24	S 0	S − 19	C +10	C +10	Ca −13	Ca + 8	C + 1	S + 5	C + 8	Ca + 3	C +13	Ca + 8
25	S +11	S + 13	S + 5	Ca − 6	Ca +17	Ca + 1	Sa 0	S +11	Ca −10	S + 6	C +10	Ca − 4
26	S −10	C + 8	C − 4	Ca − 4	C − 2	Ca + 4	Ca −15	Ca − 3	S −12	C −10	Ca + 8	Ca + 1
27	S + 8	C + 9	C − 4	Ca − 8	C + 6	S + 5	S + 5	C + 4	C + 1	Sa −29	S + 2	Ca − 4
28	S − 4	S − 4	Ca +19	C + 7	S +10	S − 7	S −16	C + 4	Ca + 7	Ca +28	Ca − 4	Ca − 2
29	Ca + 2		Ca + 1	S + 8	Sa −41	C + 6	Ca + 4	C − 1	S + 7	S + 4	C + 1	C − 4
30	S + 3		C − 2	C +16	C +18	C +12	Ca +20	Sa −19	Sa − 4	Ca − 1	C + 9	Ca − 5
31	Ca + 6		C + 7		S +16	...	S − 6	C + 4		C +13		Ca + 4
Sum without regard to sign	253	512	274	220	320	234	277	188	323	365	311	220

Total number of days in each class.

C	3	5	12	12	9	7	11	6	8	8	10	8
Ca	10	5	8	12	7	10	9	12	10	12	12	16
S	13	12	8	6	14	11	9	12	8	7	6	7
Sa	4	3	1	...	1	2	2	1	2	4	2	...
M	...	1	2	...	...	...	...	...	2	...	...	...
Ma	1	1	...	...	...	...	...	...	...	...	...	...
G	...	1	...	...	...	...	...	...	...	...	...	...
V.G.	...	...	...	...	...	...	...	...	...	...	...	...
Sum	31	28	31	30	31	30	31	31	30	31	30	31

C = Calm ; S = Small ; M = Moderate ; G = Great ; VG = Very Great.

The character of the disturbances is determined from the Horizontal Force Traces.

The suffix *a* denotes intermediate conditions of activity.

Days are reckoned from 10 A.M. to 10 A.M. of the following day

TABLE IX*h*.—*Showing the Magnetic Character of each day and the difference of the daily mean of H from that of the preceding day.*

Unity = 1γ.

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	Ca + 8	C + 4	Sa −17	S + 1	S + 2	S − 8	C − 3	Ca +13	C + 3	S +46	S +10	C − 1
2	S − 7	C + 8	Sa − 9	C +13	Sa −14	Ca +21	C + 9	Ca −11	C + 2	Ca +12	S +11	C + 7
3	S − 3	Sa −12	S +15	C + 4	S + 8	Sa 0	C + 7	Ca − 6	Ca + 6	S + 2	Ca + 7	Ca − 1
4	S + 2	S −13	S + 2	C +11	S 0	S − 9	C + 1	C − 3	Ma −14	S −15	C + 4	Sa −37
5	S − 9	Sa + 2	S − 1	S 0	Ca + 2	C + 1	Ca − 7	C + 6	Ma −75	M +26	C + 2	S −13
6	Ca + 3	Sa − 2	S +10	Sa −17	C + 5	S + 2	Ca − 4	Ca + 5	S +39	S − 4	C + 9	S +21
7	S −21	S + 3	Ca + 6	S − 7	C − 3	Ca − 3	Ca 0	S −18	S + 8	Ca +12	S + 4	S + 8
8	S + 1	Ca + 5	Sa − 6	C + 5	Ca − 3	C − 1	C + 6	Sa − 6	Sa +16	Ca 0	M −87	Ca + 2
9	Sa −10	S 0	S −10	C +12	Ca + 9	C + 7	C + 1	S −30	Sa − 1	C +12	Sa +38	C + 9
10	Ca +16	S + 6	Ca + 9	C + 3	S − 6	C + 3	C +10	S +21	S −31	C + 6	S + 2	C + 1
11	S + 9	Sa − 9	S + 8	C + 7	Ca −16	C − 2	Ca + 2	S + 1	G −10	C + 3	S + 9	C − 3
12	Ca 0	S + 1	C − 2	C + 1	Ca + 3	S +11	C − 9	Sa − 8	G −84	M −35	Ca + 7	Ca +14
13	C + 2	Ca + 5	C + 9	C − 6	S + 2	C −15	C − 8	Sa 0	S +69	Sa − 9	Ca +10	S −26
14	Ca +10	C +14	C 0	Ca + 5	Ca + 3	Ca − 1	Ca + 5	S + 6	C +19	S + 2	S − 5	Ca +19
15	S − 5	C − 3	Ca + 6	S −45	C + 7	Ca − 3	Sa − 2	Ca + 7	C +13	Ca +29	Ca + 7	C + 2
16	Ca + 4	Ca − 3	S −23	Ca +11	C +10	S *	S −30	C + 8	M −40	C + 6	S +11	C − 3
17	Ca − 2	C − 5	Ca − 2	S + 5	S −11	S *	S +10	Ca + 6	S +19	S + 8	Ma −62	Ca + 3
18	Ca + 3	C + 2	Ca +15	S +19	C + 2	S −15	C + 7	S − 7	S +24	S −15	Ca +23	Ca + 4
19	C 0	C − 2	Ca 0	S − 3	C + 1	S + 4	C + 1	M −57	S + 5	C + 7	Ca + 9	C − 7
20	C +11	C + 6	S − 8	C + 6	C + 3	S − 7	C +10	Ca +36	C + 6	C + 6	Ca +18	C + 4
21	Ca − 4	C + 9	Ca − 2	Ca +12	Ca + 3	Ca + 5	C + 5	M − 8	C + 8	Ca + 4	Ca + 7	C + 4
22	C + 1	Sa −16	Ca + 8	S −17	Ca + 1	C 0	C − 9	S + 8	S − 2	C − 2	C + 8	C − 1
23	Ca + 9	Sa −15	Ca + 5	S − 8	S −30	C + 6	C +10	C +12	C + 4	C + 8	C + 2	Ca − 4
24	S −14	Sa +13	Ca − 4	S +11	S − 1	S + 9	S 0	Ca + 3	S 0	C − 3	Ca − 8	C + 2
25	S − 8	Ca 0	Ca 0	Ca − 5	S −13	S − 7	S −31	S − 1	S + 5	C 0	C 0	S + 9
26	C − 1	Ca + 3	Ma −52	S − 3	Sa −32	S − 9	C +16	S +10	Ca − 3	Ca − 4	C 0	S −15
27	S + 5	Ca + 1	M −21	S − 6	Sa +59	S 0	C + 1	Ca + 1	Ca + 4	Ca − 9	Ca + 8	Ca − 2
28	S + 8	S − 1	Sa +21	S + 8	Sa − 4	C 0	C + 8	Ca + 8	M −24	C + 4	S − 3	C + 6
29	Sa −34	Sa − 3	S + 7	Ca + 1	S + 2	Ca + 2	C − 3	S − 2	G −96	C + 7	Ca − 7	C − 5
30	Ca +15		S + 7	C + 4	S + 4	Ca − 6	C − 2	Ca + 1	Ma +26	C − 2	C + 6	C + 6
31	Ca + 6		S + 6		S + 4		C +11	Ca − 5		M −44		Ca + 4
Sums without regard to sign	231	166	291	256	263	157	228	314	656	342	384	243

Total number of days in each class.

C	5	9	3	11	7	9	21	4	7	13	8	15
Ca	12	6	11	5	8	7	5	12	3	7	11	9
S	12	6	11	13	12	13	4	10	10	7	8	6
Sa	2	8	4	1	4	1	1	3	2	1	1	1
M	...	...	1	...	...	...	...	2	2	3	1	...
Ma	...	...	1	...	...	...	...	...	3	...	1	...
G	...	...	...	...	...	...	...	...	3	...	...	...
V.G.	...	...	...	...	...	...	...	...	...	...	...	...
Sum	31	29	31	30	31	30	31	31	30	31	30	31

C = Calm ; S = Small ; M = Moderate ; G = Great ; VG = Very Great. The suffix *a* denotes intermediate conditions of activity.

The character of the disturbances is determined from the Horizontal Force Traces. Days are reckoned from 10 A.M. to 10 A.M. of the following day.

* Owing to loss of curve on the 16th these differences are not available.

TABLE IX*j*.—*Showing the Magnetic Character of each day and the differences of the daily mean of H from that of the preceding day.*

Unity = 1γ.

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	G −19	S +20	Ca + 6	C + 5	Ca − 3	Ca − 4	S + 1	Ca + 1	Ca + 4	S +29	Ca + 1	Sa +35
2	Ma − 9	M −12	Ca + 2	C + 9	Ca + 5	Ca − 1	Ca + 1	S − 8	S + 8	Sa +11	C + 2	S +12
3	G −52	S − 3	S + 3	C + 5	Ca + 4	C + 6	Ca − 7	S − 7	Sa + 1	S + 8	C + 2	S +20
4	Sa +14	S +22	Ca −31	C + 3	Ca + 1	C + 5	Ca + 7	Ca +10	S + 2	S + 8	C + 3	S − 1
5	Ca +15	S +10	S +21	Ca − 4	C − 2	C + 1	C + 1	Ca − 1	S + 11	C + 4	C + 4	C + 9
6	C +13	Sa −14	S −19	C + 2	Ca − 2	C − 1	C + 7	C + 1	S − 4	Ca + 5	S + 2	S − 1
7	C + 7	S + 8	S +17	C + 3	C + 1	Ca + 3	Ca +14	S +10	S + 1	Sa −12	C −13	C + 8
8	C + 4	Ca + 1	S + 1	C + 4	C 0	C − 8	Ca −19	S + 1	S − 3	S −12	Ca + 5	C + 3
9	Ca +15	S +11	C + 3	Ca − 3	Ca + 7	C + 6	Ca − 7	S −27	Ca − 1	S +15	C + 1	C + 4
10	Ca + 2	S − 7	Ca 0	S − 4	Ca − 3	Ca + 8	C + 6	S +15	Ca 0	Ca +17	Ca − 1	C − 7
11	C − 2	C + 8	C +10	S 0	Ca − 9	Ca +29	Ca +11	S − 3	C + 6	S − 2	Ca + 1	C + 7
12	C + 3	C + 3	C + 1	S − 5	C + 1	C + 7	S −15	Ca + 1	C + 6	S + 4	C − 2	C + 3
13	Sa −11	Ca − 1	Ca − 4	Ca + 1	C + 8	Ca + 8	S − 2	Ca + 6	C + 3	C + 5	Ca + 5	Sa −19
14	S − 2	C + 8	Ca + 1	C +11	G −142	S + 2	S + 1	C − 5	Ca − 6	C + 7	S + 3	Sa −31
15	S + 3	C + 1	C − 1	C + 6	Sa + 45	S − 7	Ca − 9	C + 7	Ca − 6	Ca + 3	S −25	Ca +27
16	C + 5	C + 3	C + 2	S −21	Ca + 30	C + 2	Ca +11	C + 6	Ca − 5	C − 5	S + 6	S +10
17	Ca + 5	Ca −10	Ca + 2	S − 1	Ca + 13	Ca 0	C − 1	C − 1	C + 6	Ca − 4	Ca + 7	S − 2
18	S − 6	C + 7	Sa −24	S − 5	M − 36	C − 1	C + 4	Ca + 2	C + 8	M −20	S + 1	S + 3
19	Ca + 1	C + 9	G −52	Ca + 8	S + 10	C + 6	C + 5	S −17	C + 9	Sa −57	S + 2	Ca − 4
20	C + 4	C 0	Ca +31	C + 4	Ca + 32	C + 6	C + 2	S + 1	Ca + 2	S +44	Sa −20	S + 5
21	C 0	S −25	Sa 0	C + 9	Ca + 7	Sa + 7	Ca + 1	Ca + 9	Sa − 44	Ca +18	S + 7	S −18
22	C + 2	S −10	S +14	C + 7	Ca 0	S −16	Ca −12	Ca − 8	Ca + 6	S 0	S + 1	S + 5
23	Ca +13	S + 9	Ca + 6	C − 8	Ca + 9	S −22	S −12	C + 3	Ca + 6	M −59	Ca − 1	Ca + 9
24	S + 2	S + 5	C + 6	S + 7	C + 7	S +12	Ca − 9	Ca + 1	C + 10	Sa +42	C +10	C + 7
25	Sa −32	C + 3	S + 7	S −29	S + 14	C − 1	C +19	Ca 0	VG −254	S +14	C + 3	C + 7
26	Sa − 3	S + 5	S − 8	S −12	S − 17	C + 7	C − 2	S −11	S + 93	S + 8	Ca +11	S −15
27	Sa +11	S + 1	S + 2	S +11	S − 7	Ca +10	Ca − 4	Ca + 3	S + 62	C + 7	Sa − 7	Ca + 5
28	Sa − 4	C − 5	M −36	Ca + 9	S + 9	S + 6	S + 3	S + 1	S − 25	Ca + 9	C − 2	C + 6
29	Sa − 8		S − 8	Ca + 7	Ca + 4	S −17	S − 9	Sa −37	S + 10	S − 1	Ca + 6	Ca + 6
30	M −13		C +31	Ca + 5	C + 3	S + 4	Ca + 8	Sa +13	Ma − 42	S + 5	M −89	Ca − 3
31	M −19		Ca + 8		S + 4		C + 6	S + 4		Ca + 3		S − 3
Sum without regard to sign	299	221	357	208	435	213	216	220	644	438	243	295

Total number of days in each class.

C	9	10	7	13	7	13	10	6	7	5	10	10
Ca	6	3	10	7	15	8	14	11	9	7	9	6
S	4	13	10	10	6	8	7	12	10	13	8	12
Sa	7	1	2	...	1	1	...	2	2	4	2	3
M	2	1	1	...	1	...	...	...	...	2	1	...
Ma	1	...	...	...	...	...	...	...	1	...	...	...
G	2	...	1	...	1	...	...	...	...	...	...	...
V.G.	...	...	...	...	...	...	...	...	1	...	...	...
Sum	31	28	31	30	31	30	31	31	30	31	30	31

C = Calm ; S = Small ; M = Moderate ; G = Great ; VG = Very Great.

The character of the disturbances is determined from the Horizontal Force Traces.

The suffix *a* denotes intermediate conditions of activity.

Days are reckoned from 10 A.M. to 10 A.M. of the following day.

TABLE IX*k*.—*Showing the Magnetic Character of each day and the differences of the daily mean of H from that of the preceding day.*

Unity = 1γ.

1910. Date.	January.	February.	March.	April	May.	June.	July.	August.	September.	October.	November.	December.
1	Ca − 8	Ca + 1	S + 2	Sa +10	Ca + 3	Ca +13	C + 5	S + 7	S + 6	S +23	Ca + 2	Ca +12
2	Ca + 6	S −10	S +10	S +10	S − 2	C + 8	Ca +11	S − 9	S − 5	S −12	Sa − 8	S − 8
3	C + 6	S + 1	S − 8	S +10	Ca + 5	C + 1	Ca − 9	S − 9	Ca + 6	Sa +12	Ca +24	S + 9
4	S − 9	S + 5	S − 4	S −10	S + 4	C − 5	S +10	S + 3	Ca + 3	Sa −15	S − 1	Ca + 1
5	S − 3	Ca − 6	S − 4	Ca +14	Ca + 6	C + 3	S −25	Ca + 5	Ca + 4	S +31	Ca − 2	S + 5
6	Ca − 2	C +10	S + 5	C + 3	Ca + 2	Ca + 8	S + 6	C + 6	S − 3	M −24	C + 4	S − 7
7	C + 5	C + 4	S + 5	Ca + 6	Ca − 6	Ca + 7	S − 1	C + 2	Ca − 7	S +10	S − 3	S − 1
8	C + 5	C 0	Ca 0	C 0	C + 6	Sa − 6	Ca + 4	C + 3	C + 4	Ca +10	S 0	Ca + 8
9	S +10	Ca − 1	S + 4	C + 2	S + 4	S −18	S + 5	Ca − 4	C +12	Ca + 8	S − 5	C − 3
10	Ca − 6	C − 1	S + 4	C + 9	Ca 0	S + 3	S − 5	S −50	Ca − 3	Ca + 6	S − 4	C + 7
11	C + 6	Ca + 6	Ca + 1	Ca + 9	Ca − 4	S + 3	Ca 0	S +36	S − 6	S − 6	Ca + 6	C 0
12	S − 1	C + 3	C + 1	S −12	Ca + 7	Ca − 2	C + 6	Ca + 2	C + 4	S − 6	Ca + 3	Ca +13
13	Ca − 8	Ca + 1	S + 6	Ca − 1	Sa −32	Ca − 1	C 0	Ca + 6	S + 7	Sa −12	C + 5	S −17
14	S − 1	Sa + 7	Ca − 4	C + 4	S + 7	C + 1	C +12	S + 5	S − 6	S + 8	Ca + 6	C − 7
15	C + 6	S − 1	S + 6	C + 7	S + 7	C + 5	C 0	Ca − 8	Ca − 3	Ca + 7	Ca − 3	Sa −15
16	C + 4	Ca − 5	S −15	Ca −10	S + 4	C +10	Ca − 3	C + 9	S − 4	C + 3	S −18	Ca + 6
17	Sa −13	S − 7	S + 2	S + 4	S +10	C + 5	C − 2	Ca + 8	Ca + 2	C + 7	S − 7	C + 7
18	S − 4	S −13	S + 6	Sa −60	Sa −28	C − 9	S +10	S − 5	Ca − 1	C +10	Sa −12	S + 2
19	Ca + 3	Ca + 9	Ca + 2	S +33	S + 2	S + 5	Ca − 6	Sa −22	C +10	M −45	S − 1	Ca + 3
20	Ca + 9	M − 7	S −34	Ca +10	S +15	Sa −37	Ca − 3	S +12	S 0	S + 7	S + 4	S −14
21	S + 3	Sa − 2	S +18	C +10	Ca + 8	S − 1	C − 1	Sa −11	S −22	S +12	S +15	S +14
22	S − 9	S + 3	S +13	Ca + 5	Ca + 7	S + 1	Ca + 5	Ma −77	S − 3	S − 1	S + 1	S −13
23	Ca −13	Ca + 3	C + 2	S −17	S + 8	S + 5	S −10	S +67	S + 4	S + 2	Ca + 3	Ca + 6
24	Sa −25	S + 5	C + 4	S 0	Sa −37	Ca + 7	Ca − 3	S − 3	S − 4	S − 6	C − 2	S + 8
25	M −16	M −45	C + 6	Ca + 8	Sa + 4	S − 1	Ca + 1	Ca + 7	Sa − 8	Sa −14	S + 2	Ca −22
26	Sa +30	S +31	C + 2	S + 5	S + 8	S + 5	C − 2	C + 4	S + 4	S + 5	Ca − 1	C +13
27	S + 9	Ca + 1	M −41	M −63	S − 1	Ca + 3	C + 3	S +15	Sa − 4	M −19	S 0	Ca +13
28	Ca + 3	S + 1	Ma −73	Sa +29	S − 4	Ca + 7	S +14	Sa −26	S + 4	S +16	S − 6	S −17
29	C +10		Sa +41	S + 9	Ca + 5	S 0	S −23	Sa 0	M −31	S + 7	S −23	S −11
30	C + 4		S +26	S + 5	S + 5	C −10	Ca + 5	S + 1	Sa + 8	S + 4	S +19	S +11
31	C − 1		Sa −20		S − 7		C 0	S +12		Ca + 4		S + 3
Sums without regard to sign.	238	189	369	375	248	190	190	434	188	352	190	276

Total number of days in each class.

C	9	5	5	7	1	10	10	5	4	3	3	6
Ca	9	9	4	8	11	8	11	7	8	3	9	9
S	9	10	18	11	15	10	10	14	14	16	16	15
Sa	3	2	2	3	4	2	...	4	3	4	2	1
M	1	2	1	1	...	...	...	...	1	3	...	...
Ma	...	...	1	...	...	...	...	1	...	...	...	...
G	...	...	...	...	...	...	...	...	...	...	...	...
VG	...	...	...	...	...	...	...	...	...	...	...	...
Sum ...	31	28	31	30	31	30	31	31	30	31	30	31

C = Calm ; S = Small ; M = Moderate ; G = Great ; VG = Very Great.

The character of the disturbances is determined from the Horizontal Force Traces.

The suffix *a* denotes intermediate conditions of activity.

Days are reckoned from 10 A.M. to 10 A.M. of the following day.

TABLE Xa.—*Diurnal ranges of Horizontal Force.*

Unity = 1γ.

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Month.											
1 ...	23	48	55	77	51	41	64	**21**	52	**96**	42	46
2 ...	36	34	**41**	60	57	**100**	55	33	58	54	39	47
3 ...	21	32	52	**45**	48	63	53	53	74	51	47	54
4 ...	23	38	68	85	50	52	53	35	36	47	65	37
5 ...	32	**29**	60	57	57	66	62	35	36	44	35	39
6 ...	24	68	53	65	62	**36**	46	46	58	57	42	60
7 ...	35	54	55	64	46	51	58	100	48	63	44	65
8 ...	38	50	67	60	60	40	46	48	35	60	54	**134**
9 ...	35	61	50	**88**	63	40	60	38	48	53	48	69
10 ...	26	39	53	69	52	52	58	26	38	53	67	24
11 ...	45	42	53	86	83	56	**103**	28	43	50	35	21
12 ...	56	51	55	66	52	64	47	**120**	39	75	38	30
13 ...	75	39	75	78	55	64	54	33	61	71	34	**20**
14 ...	52	47	66	71	64	57	53	50	39	61	48	23
15 ...	46	101	41	60	**144**	74	46	48	58	68	61	46
16 ...	32	49	54	68	48	52	48	44	51	57	62	82
17 ...	41	35	57	76	57	57	48	46	35	46	50	58
18 ...	21	50	57	77	50	37	72	36	51	58	42	50
19 ...	54	122	63	64	47	42	55	43	48	81	33	31
20 ...	**18**	46	72	67	52	49	59	69	53	79	40	48
21 ...	34	40	51	87	**33**	46	87	49	48	87	**95**	39
22 ...	48	48	87	60	49	44	73	44	**134**	48	55	124
23 ...	42	87	72	57	49	42	64	46	**25**	37	29	35
24 ...	43	**153**	**103**	82	65	51	**26**	46	30	33	37	26
25 ...	42	65	97	59	57	62	43	45	37	47	23	25
26 ...	32	43	87	45	66	59	58	62	69	64	**21**	31
27 ...	31	45	81	60	80	55	93	72	57	80	29	43
28 ...	37	112	79	51	68	69	41	54	58	45	41	36
29 ...	41		58	61	74	49	84	53	48	53	42	23
30 ...	39		51	51	52	56	67	46	68	**31**	46	29
31 ...	**119**		74		66		37	37		42		38
Monthly mean ...	39·7	58·1	64·1	66·5	59·9	54·2	58·5	48·6	51·2	57·8	44·8	46·2

The diurnal ranges are derived from twenty-four hourly tabulations of the Horizontal Force Magnetograms during the day. The ranges are aperiodic, *i.e.*, the maximum and the minimum values are taken at whatever hour of the day they have occurred. Days are reckoned from 10 A.M. to 10 A.M. of the following day.

TABLE Xb.—*Diurnal ranges of Horizontal Force.*

Unity = 1γ.

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	57	63	62	72	74	80	51	64	37	71	48	45
2 ...	40	68	62	65	63	73	57	45	53	53	65	55
3 ...	36	48	56	76	55	47	60	68	78	37	89	34
4 ...	47	58	73	76	49	62	39	64	71	50	57	89
5 ...	100	52	70	95	52	43	51	43	37	43	58	73
6 ...	41	55	74	74	104	44	**29**	49	49	42	59	77
7 ...	62	153	54	65	51	**34**	54	42	39	48	54	**98**
8 ...	67	94	61	63	55	46	35	58	44	94	60	37
9 ...	43	**297**	71	57	57	65	42	**30**	67	49	55	40
10 ...	62	51	**164**	68	77	66	82	53	**188**	59	117	94
11 ...	**198**	**36**	56	70	97	45	72	37	96	73	87	64
12 ...	39	42	69	58	61	47	44	37	80	55	47	64
13 ...	35	61	56	66	101	50	33	58	52	136	46	32
14 ...	60	154	60	**115**	55	50	42	69	52	76	49	37
15 ...	72	60	58	63	**31**	68	39	39	48	50	41	51
16 ...	49	42	47	98	32	70	60	61	90	69	45	36
17 ...	60	57	54	**38**	34	62	56	53	129	59	51	60
18 ...	67	43	56	60	92	74	62	69	60	43	44	49
19 ...	51	47	91	41	42	**114**	56	38	**30**	49	35	46
20 ...	38	38	70	55	37	63	53	35	44	60	48	89
21 ...	31	52	148	49	35	47	53	66	53	59	**203**	35
22 ...	47	71	65	67	69	86	67	58	49	**163**	140	45
23 ...	32	77	53	72	50	45	44	30	39	48	62	65
24 ...	60	95	**45**	66	54	54	56	41	48	55	38	39
25 ...	56	67	59	80	43	78	**112**	59	91	61	56	55
26 ...	79	45	54	61	54	58	58	64	86	50	52	64
27 ...	38	78	64	86	35	55	63	54	33	121	76	46
28 ...	65	71	45	58	43	68	44	57	75	40	37	41
29 ...	39		68	49	**105**	42	57	42	58	68	**27**	**28**
30 ...	60		53	58	39	53	60	**128**	77	**29**	32	59
31 ...	**29**		70		59		79	34		41		28
Monthly Mean ...	56·8	74·1	67·4	67·4	58·2	59·6	55·2	53·1	65·1	62·9	62·6	54·0

TABLE Xc.—*Diurnal ranges of Horizontal Force.*

Unity = 1γ.

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	31	40	51	48	104	49	**37**	65	72	53	79	28
2 ...	56	45	74	53	65	53	41	75	45	53	36	43
3 ...	58	**96**	44	73	61	**126**	54	41	53	81	36	40
4 ...	67	64	85	73	56	65	45	59	115	73	31	**115**
5 ...	62	60	**28**	78	44	56	50	49	88	106	35	69
6 ...	36	72	56	**121**	53	66	53	66	33	**40**	47	45
7 ...	98	55	58	82	58	47	43	69	60	48	92	45
8 ...	46	36	136	47	57	44	63	65	44	57	116	54
9 ...	57	49	78	59	51	43	61	49	71	56	51	50
10 ...	33	**27**	39	65	77	62	89	52	80	56	48	53
11 ...	43	87	63	69	50	46	50	74	**269**	77	44	30
12 ...	41	46	46	65	47	57	59	84	191	101	30	34
13 ...	**21**	38	57	62	**35**	51	52	**32**	35	61	40	97
14 ...	24	70	66	56	60	**29**	55	33	32	70	60	43
15 ...	46	56	51	104	49	47	**121**	40	38	41	28	46
16 ...	36	81	118	39	53	*rejected	87	50	130	55	41	26
17 ...	35	33	57	65	103	70	91	64	45	60	**213**	41
18 ...	44	40	63	76	41	74	59	88	31	48	48	28
19 ...	24	56	56	68	58	65	43	**128**	54	47	60	30
20 ...	42	56	59	53	56	43	50	32	45	48	31	42
21 ...	74	47	55	**29**	54	58	51	118	57	52	47	23
22 ...	42	87	56	83	59	68	40	44	45	61	40	46
23 ...	39	55	52	63	65	51	50	62	**27**	56	49	41
24 ...	71	84	60	60	61	56	66	34	54	57	72	36
25 ...	25	38	43	55	81	50	107	52	76	60	40	55
26 ...	46	41	**147**	34	**107**	51	54	60	45	52	50	111
27 ...	22	38	66	59	54	50	43	51	67	50	50	39
28 ...	45	69	55	55	89	46	45	60	81	43	72	50
29 ...	**109**	90	66	55	54	73	62	68	141	51	42	38
30 ...	39		49	49	47	70	39	59	103	56	**26**	**23**
31 ...	33		41		66		68	37		**130**		40
Monthly Mean ...	46·6	57·1	63·7	63·3	61·8	57·4	59·0	60·0	74·2	61·3	55·1	47·1

* Owing to loss of curve this day is rejected.

TABLE Xd.—*Diurnal ranges of Horizontal Force.*

Unity = 1γ.

1909. Date.	January.	February.	March.	April.	May.	June.	July	August.	September.	October.	November.	December.
1 ...	189	75	38	63	68	68	46	44	41	28	53	70
2 ...	70	121	49	69	54	37	40	65	52	67	50	56
3 ...	163	48	93	72	49	53	65	44	118	36	47	37
4 ...	39	43	68	65	63	45	41	44	36	42	49	61
5 ...	28	55	98	65	57	50	42	55	65	41	54	41
6 ...	24	108	44	60	66	78	64	41	35	32	87	63
7 ...	43	36	66	52	51	58	49	85	31	118	34	37
8 ...	42	50	71	65	35	34	85	41	63	80	61	22
9 ...	38	37	54	77	44	43	53	55	59	88	52	31
10 ...	27	44	68	87	52	53	43	78	34	44	40	63
11 ...	23	43	43	90	60	85	41	66	37	62	48	36
12 ...	37	40	53	56	50	42	44	42	49	52	49	51
13 ...	114	35	53	57	59	50	51	45	48	38	47	105
14 ...	34	50	51	65	419	51	60	38	47	43	74	122
15 ...	32	23	47	52	87	40	25	41	48	42	76	29
16 ...	32	42	46	85	40	43	29	34	60	73	79	84
17 ...	26	46	42	53	32	57	44	58	38	81	40	57
18 ...	44	47	134	93	110	54	44	62	27	138	52	53
19 ...	26	58	199	61	59	72	49	85	35	101	70	31
20 ...	34	50	44	77	43	48	32	64	60	46	135	57
21 ...	49	84	106	67	46	127	75	49	140	63	41	107
22 ...	40	87	56	78	45	68	73	54	39	48	52	25
23 ...	41	44	49	87	68	77	67	42	39	132	42	22
24 ...	36	52	64	61	54	51	52	39	41	60	50	34
25 ...	75	63	64	84	59	16	61	39	718	39	65	21
26 ...	60	28	98	71	101	37	47	50	102	39	84	61
27 ...	94	64	92	99	56	38	58	34	32	34	134	58
28 ...	45	42	138	53	25	82	48	42	52	47	36	36
29 ...	99		77	28	33	49	48	89	65	68	46	35
30 ...	139		50	58	39	34	48	74	206	58	214	47
31 ...	57		55		62		50	41		54		79
Monthly Mean ...	58·1	53·9	71·3	68·3	67·3	54·7	50·8	52·9	80·6	61·1	65·4	52·6

TABLE Xe.—*Diurnal ranges of Horizontal Force.*

Unity = 1γ.

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	28	28	35	84	28	45	37	91	40	40	41	29
2 ...	33	59	45	52	35	43	28	56	36	68	88	51
3 ...	27	38	47	56	34	49	73	83	22	68	40	44
4 ...	62	44	47	65	46	42	51	58	27	78	63	43
5 ...	35	24	57	44	52	38	54	38	41	24	43	43
6 ...	27	26	61	41	47	50	71	39	68	115	51	55
7 ...	14	25	46	44	35	46	42	44	23	32	67	27
8 ...	30	29	49	37	23	82	49	57	41	47	51	33
9 ...	35	32	52	54	45	59	31	62	25	47	33	24
10 ...	36	35	40	57	29	43	55	73	41	49	48	36
11 ...	27	61	43	47	38	40	34	63	25	68	40	43
12 ...	71	59	55	70	36	41	45	43	23	47	49	26
13 ...	38	44	60	51	96	49	34	41	40	74	36	82
14 ...	47	87	51	58	21	35	36	94	51	42	69	37
15 ...	43	55	66	51	41	26	46	42	37	49	53	111
16 ...	36	45	68	66	61	33	55	43	46	42	61	26
17 ...	73	63	72	40	76	53	41	47	20	39	76	39
18 ...	24	38	63	81	99	43	44	66	21	39	82	48
19 ...	35	32	44	37	48	38	59	41	39	170	90	49
20 ...	35	104	90	51	52	71	51	45	47	62	68	66
21 ...	39	63	56	41	49	44	53	91	34	81	37	36
22 ...	67	53	48	67	35	33	56	213	48	51	57	68
23 ...	29	40	44	58	32	27	40	51	27	59	48	38
24 ...	69	68	53	60	117	42	51	47	63	54	44	45
25 ...	116	147	53	48	61	56	37	42	75	68	33	72
26 ...	54	63	43	57	45	45	44	47	79	52	56	18
27 ...	23	49	153	146	26	53	35	46	57	134	49	26
28 ...	44	51	165	41	41	39	41	120	33	33	66	62
29 ...	41		90	63	41	62	82	36	116	65	91	49
30 ...	37		67	43	35	45	64	36	66	67	46	34
31 ...	38		99		58		35	49		47		39
Monthly Mean ...	42·4	52·2	63·3	57·0	47·8	45·7	47·5	61·4	43·7	61·6	55·9	45·1

Table XIa.—*Diurnal ranges of Declination.*

Unity = 1 minute of arc.

1906. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	2·6	2·8	2·7	3·7	3·9	**2·8**	6·2	4·0	5·9	5·1	2·8	1·7
2 ...	3·3	2·9	1·8	6·3	6·0	4·5	4·3	4·5	7·2	4·4	1·3	1·7
3 ...	4·4	4·2	1·6	3·4	4·6	3·0	5·1	4·4	**8·0**	4·8	2·4	2·9
4 ...	3·2	3·8	**1·5**	3·9	5·3	3·4	6·2	5·6	6·8	**6·5**	2·6	2·4
5 ...	3·1	**5·8**	2·5	4·7	**3·2**	5·1	6·1	5·8	5·3	6·4	2·3	2·0
6 ...	2·7	2·3	1·8	4·3	6·7	5·8	4·9	5·0	7·5	4·8	1·5	1·5
7 ...	2·4	2·9	2·3	4·5	4·8	5·3	7·3	6·3	6·5	3·3	2·4	2·1
8 ...	**1·5**	3·1	3·3	5·5	6·9	5·7	6·2	5·0	5·2	2·5	2·6	4·5
9 ...	3·5	2·3	1·9	4·8	6·8	3·8	**8·7**	5·2	5·0	4·4	2·2	2·1
10 ...	2·6	2·6	3·0	2·8	6·7	5·5	7·9	4·2	6·1	3·0	3·1	1·6
11 ...	2·6	2·3	2·1	4·0	6·5	3·1	6·0	**3·5**	6·3	3·3	**1·0**	1·7
12 ...	2·1	2·7	3·4	4·0	6·6	4·8	5·5	5·4	4·8	2·5	1·4	1·7
13 ...	1·8	**2·1**	2·9	3·8	4·5	4·5	4·9	3·6	4·5	3·2	1·7	**1·1**
14 ...	2·4	2·2	2·7	4·2	5·1	4·8	4·8	3·7	6·0	2·5	1·5	2·1
15 ...	2·7	2·2	2·0	2·4	5·0	3·4	4·2	5·8	5·5	3·8	1·9	2·1
16 ...	2·2	3·2	3·3	4·3	3·6	5·8	4·3	4·8	5·8	4·8	1·4	1·8
17 ...	4·7	3·3	3·3	4·2	6·9	5·5	4·7	6·5	5·8	2·7	1·9	2·5
18 ...	**4·8**	3·2	2·9	5·2	5·1	5·4	5·1	5·4	6·5	5·2	1·4	1·4
19 ...	4·3	2·8	3·2	**7·0**	6·8	4·3	7·1	5·6	5·3	3·5	1·3	1·4
20 ...	3·7	2·8	3·7	4·8	5·7	**7·6**	6·2	6·1	5·6	2·1	1·3	2·2
21 ...	2·5	2·7	5·5	3·5	**8·5**	3·0	6·2	6·8	5·3	3·3	**4·4**	2·6
22 ...	3·0	2·3	4·8	4·4	8·2	4·5	7·9	6·5	4·0	3·3	2·2	**4·7**
23 ...	3·1	2·3	4·6	5·2	4·7	2·9	6·2	5·6	4·4	2·9	1·4	2·2
24 ...	2·5	3·6	5·6	4·6	8·1	4·5	4·3	7·5	4·5	2·5	1·2	2·0
25 ...	1·7	3·6	4·4	5·0	6·5	5·4	5·3	6·0	4·2	**1·6**	1·5	2·7
26 ...	3·1	3·2	4·4	**2·2**	3·7	4·7	**3·6**	5·3	6·1	*rejected	1·2	1·6
27 ...	3·7	2·9	4·3	3·5	6·4	3·5	7·4	5·4	4·9	2·7	1·5	1·8
28 ...	4·6	2·5	6·1	3·5	3·3	5·8	4·4	**7·6**	4·9	3·6	1·2	2·1
29 ...	3·1		**6·2**	4·7	5·9	4·1	5·2	6·3	**3·3**	3·4	1·3	1·6
30 ...	3·1		3·9	4·4	5·6	4·5	6·3	5·1	3·9	1·9	2·5	2·5
31 ...	3·2		5·5		4·1		3·6	7·0		1·9		1·5
Monthly Mean ...	3·04	2·95	3·46	4·29	5·64	4·57	5·68	5·47	5·50	3·42	1·88	2·12

* Owing to the adjustment of the Declination Magnetograph this day is rejected and the range is not available.

The diurnal ranges are derived from twenty-four hourly tabulations of the Declination Magnetograms during the day. The ranges are non-periodic, *i.e.*, the maximum and the minimum values are taken at whatever hour of the day they have occurred. Days are reckoned from 10 a.m. to 10 a.m. of the following day.

TABLE XI*b*.—*Diurnal ranges of Declination.*

Unity = 1 minute of arc.

1907. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	1·8	1·9	2·3	5·5	4·1	4·1	**3·1**	5·9	4·8	3·8	1·4	2·1
2 ...	3·0	2·3	**1·2**	3·7	4·0	6·6	4·6	3·0	4·5	**5·3**	2·4	3·7
3 ...	1·6	4·0	2·7	5·4	5·1	4·0	4·4	3·8	6·1	4·2	2·4	1·3
4 ...	1·8	3·7	2·3	5·5	4·2	4·6	4·6	5·0	5·8	4·8	2·7	2·9
5 ...	3·3	3·5	3·5	3·9	3·9	6·4	4·0	3·5	6·8	5·2	1·9	2·2
6 ...	2·5	2·8	3·3	5·9	4·4	6·4	5·1	4·2	5·1	3·8	1·5	2·4
7 ...	2·4	1·8	3·8	4·6	4·1	4·4	5·3	3·2	7·7	3·8	1·9	3·2
8 ...	3·4	2·7	4·0	5·1	5·2	5·6	5·2	4·1	7·5	4·9	2·2	2·1
9 ...	3·4	**7·7**	2·9	4·4	6·5	6·3	6·4	3·8	6·5	2·4	1·9	1·3
10 ...	2·9	2·9	3·6	5·9	5·7	6·6	**8·0**	4·7	**8·6**	1·8	2·9	2·5
11 ...	3·8	2·4	2·8	5·4	**6·6**	6·7	4·6	5·3	7·2	3·7	3·0	2·1
12 ...	2·7	2·6	2·9	5·2	4·2	4·4	6·4	4·3	7·1	3·7	1·5	2·7
13 ...	2·4	2·8	4·3	4·7	5·7	4·2	7·0	3·9	7·3	3·7	2·2	2·5
14 ...	3·6	3·6	3·8	3·8	6·6	6·2	5·0	4·9	6·3	2·7	1·4	1·8
15 ...	4·7	2·3	3·6	3·7	4·1	4·4	5·3	5·0	6·0	2·1	1·1	3·2
16 ...	3·3	2·5	3·2	4·6	3·5	5·4	4·7	4·1	6·1	1·6	**0·8**	1·7
17 ...	3·6	1·9	3·0	3·6	4·0	4·3	5·4	3·2	5·4	**4·1**	1·5	2·5
18 ...	4·8	2·0	3·6	**3·5**	5·6	4·8	5·8	4·6	3·3	3·3	1·7	2·9
19 ...	3·0	**1·4**	3·7	4·0	**3·4**	6·5	3·5	3·5	3·7	2·8	1·9	3·0
20 ...	4·3	1·8	4·0	3·7	5·1	**6·9**	5·1	5·0	3·5	2·7	2·5	**4·1**
21 ...	6·0	1·9	4·2	6·0	**5·6**	5·3	4·7	3·7	4·5	4·1	**3·5**	2·4
22 ...	**6·4**	3·4	2·2	5·4	5·3	4·5	5·9	5·1	4·7	4·0	2·3	2·7
23 ...	4·4	2·7	4·1	4·3	4·2	4·9	4·1	**2·9**	4·9	2·3	1·7	2·4
24 ...	3·1	2·3	4·5	4·2	3·7	4·5	5·8	5·1	**3·2**	2·7	1·9	1·8
25 ...	1·9	3·6	**4·6**	5·8	3·6	6·7	5·6	5·6	4·4	3·3	2·3	2·9
26 ...	**1·4**	2·3	3·9	6·3	5·3	6·3	7·3	5·1	3·5	4·1	2·0	2·2
27 ...	2·1	4·1	4·5	5·3	4·3	5·6	4·5	4·7	4·1	3·1	2·7	2·6
28 ...	1·7	3·9	3·4	4·8	6·3	5·4	5·3	**6·8**	5·6	3·3	2·1	1·6
29 ...	2·8		3·2	**7·7**	6·0	4·2	3·5	6·1	3·8	2·0	1·4	1·5
30 ...	2·5		4·0	4·7	4·3	**3·5**	4·1	5·3	5·4	**1·3**	1·4	1·7
31 ...	2·1		3·5		5·2		4·3	3·3		1·7		**1·2**
Monthly Mean ...	3·12	2·89	3·44	4·89	4·83	5·32	5·12	4·48	5·45	3·30	2·00	2·36

TABLE XI*c*.—*Diurnal ranges of Declination.*

Unity = 1 minute of arc.

1908. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	**3·4**	3·5	3·2	3·8	5·2	5·9	3·2	8·0	**9·5**	5·8	2·3	**1·3**
2 ...	3·3	3·6	4·4	4·7	4·8	5·8	4·3	7·4	6·2	4·0	1·4	1·7
3 ...	3·4	2·7	3·2	3·0	6·7	**7·2**	5·0	8·7	7·4	4·0	1·7	2·3
4 ...	2·3	2·2	2·9	4·7	5·5	4·8	3·5	6·3	8·9	3·5	2·9	2·4
5 ...	2·4	2·0	3·7	3·6	4·6	3·6	5·0	5·9	6·5	5·5	2·7	3·5
6 ...	2·5	2·4	2·1	3·1	6·2	3·6	3·5	6·2	6·5	3·3	1·3	3·0
7 ...	2·0	2·6	**1·9**	4·0	**2·8**	4·6	5·3	9·4	7·1	4·6	1·9	3·0
8 ...	3·3	2·9	2·7	4·9	5·0	**3·1**	4·7	6·1	6·1	4·7	3·8	2·2
9 ...	1·6	2·8	2·2	3·5	6·4	3·3	**2·4**	5·1	7·6	4·3	3·6	1·7
10 ...	1·7	**4·5**	2·1	5·3	5·1	5·1	5·3	6·9	5·0	4·8	2·0	2·9
11 ...	2·2	3·2	3·4	4·3	6·3	4·2	4·4	5·8	6·5	**7·2**	1·9	2·6
12 ...	2·1	3·1	3·1	**2·9**	3·6	6·1	4·6	8·1	6·1	3·2	2·5	2·6
13 ...	2·1	3·6	3·3	5·3	3·8	4·5	5·4	6·3	4·9	4·9	2·8	3·9
14 ...	2·0	3·6	4·0	4·0	4·0	4·1	4·2	6·9	5·1	4·7	1·8	1·5
15 ...	2·8	2·7	3·6	4·7	4·7	5·2	7·4	6·7	5·4	1·6	**1·2**	2·3
16 ...	2·5	2·2	3·6	4·1	5·8	4·5	6·1	6·5	6·1	2·5	1·9	3·4
17 ...	2·4	2·4	3·0	3·6	5·5	6·3	4·8	4·1	5·3	3·3	2·3	1·7
18 ...	1·8	3·0	2·5	3·4	4·8	6·0	6·3	6·6	6·4	4·1	2·1	2·1
19 ...	2·0	2·0	3·1	3·5	5·5	4·2	4·0	4·2	3·6	1·9	1·6	1·6
20 ...	2·3	2·5	3·7	**5·7**	6·8	5·2	6·5	4·9	4·7	3·0	1·9	1·4
21 ...	3·2	2·8	3·2	4·1	4·8	3·6	3·8	7·2	3·8	2·1	1·7	1·3
22 ...	2·7	2·9	2·9	5·6	4·1	6·0	4·0	5·8	5·8	2·8	1·6	3·4
23 ...	1·8	2·9	2·7	4·2	4·7	4·4	4·2	6·1	**3·1**	2·0	1·8	1·3
24 ...	2·4	2·1	3·7	4·9	3·6	3·8	5·3	**5·6**	4·5	1·3	2·0	1·8
25 ...	2·1	1·9	2·5	5·3	**7·5**	6·2	4·2	**3·8**	5·5	**1·2**	3·3	4·0
26 ...	**1·5**	**1·4**	**5·9**	3·9	4·2	5·6	6·2	7·7	5·2	2·8	3·5	3·3
27 ...	2·3	1·7	4·1	4·4	4·9	4·4	6·0	7·9	5·9	1·8	**3·8**	2·7
28 ...	2·9	2·0	4·7	3·3	5·4	4·8	5·7	**10·5**	6·0	1·8	2·0	1·5
29 ...	3·1	3·1	5·5	3·4	4·9	6·5	6·2	7·8	6·6	1·8	2·1	2·8
30 ...	2·1		5·0	5·6	3·8	5·4	7·3	7·7	4·7	3·7	1·5	3·1
31 ...	2·2		4·5		5·4		**7·5**	7·0		2·6		**5·1**
Monthly Mean ...	2·40	2·70	3·43	4·23	5·05	4·93	5·04	6·68	5·87	3·38	2·23	2·50

TABLE XIa.—*Diurnal ranges of Declination.*

Unity = 1 minute of arc.

1909. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	3·7	3·1	1·7	3·4	4·5	**6·3**	3·9	5·1	6·5	2·9	1·9	2·7
2 ...	3·8	3·5	2·7	3·0	4·7	5·0	**2·1**	4·9	5·4	3·5	1·6	2·3
3 ...	3·7	2·5	3·3	**2·3**	4·2	4·6	**5·8**	5·0	5·9	3·8	1·4	1·4
4 ...	4·0	2·5	2·3	2·5	2·8	4·7	4·9	6·1	6·9	4·5	1·4	1·7
5 ...	2·4	2·5	3·5	3·5	5·3	3·4	2·8	5·1	6·1	4·1	2·4	**1·1**
6 ...	2·8	2·7	1·4	4·8	3·5	5·9	3·8	5·5	5·8	**5·7**	2·8	2·3
7 ...	1·6	2·7	**1·1**	2·6	4·2	4·8	2·7	6·1	4·3	3·7	1·5	1·4
8 ...	2·4	**4·4**	1·3	2·7	**2·6**	3·5	3·8	5·2	5·8	2·6	1·7	1·3
9 ...	1·7	4·1	1·9	3·9	2·9	4·7	3·4	4·7	5·8	2·7	1·3	2·5
10 ...	1·7	1·5	1·7	3·6	4·6	4·1	2·9	6·2	4·6	4·2	1·8	2·8
11 ...	**1·3**	2·4	1·3	4·1	3·1	3·6	2·2	4·5	4·1	3·9	1·8	1·9
12 ...	1·8	1·8	2·5	5·0	4·2	2·3	3·4	5·1	4·2	2·3	2·9	2·2
13 ...	2·3	3·6	2·4	4·1	5·1	3·5	3·4	5·1	5·2	2·8	2·3	**3·9**
14 ...	3·7	2·6	1·9	3·0	**9·4**	5·4	3·2	6·7	4·8	2·4	2·3	3·3
15 ...	2·4	3·9	1·5	3·2	4·7	3·8	3·7	6·3	5·4	4·0	3·0	2·3
16 ...	2·9	1·9	2·7	5·0	3·6	5·0	4·6	5·8	4·9	4·0	2·4	3·0
17 ...	4·1	1·2	1·5	**13·6**	5·2	4·8	3·1	**7·2**	4·6	3·4	1·6	2·1
18 ...	1·9	1·4	2·5	4·7	5·0	2·4	3·2	5·9	3·9	3·7	1·5	1·2
19 ...	3·3	3·8	4·8	4·8	3·3	3·6	5·1	5·3	**2·4**	2·5	2·2	2·6
20 ...	3·3	3·8	3·3	4·0	4·6	**1·7**	4·0	4·8	2·7	1·4	2·4	2·0
21 ...	2·9	4·0	5·0	2·8	5·0	6·2	5·4	4·9	3·1	2·7	1·5	3·4
22 ...	2·4	2·3	4·0	6·0	4·7	3·7	3·2	6·9	5·1	2·0	1·4	2·0
23 ...	1·6	1·8	3·5	4·6	5·8	3·6	4·8	5·6	3·8	4·4	1·3	2·1
24 ...	1·9	3·1	3·4	4·7	4·1	5·3	3·1	6·2	3·8	1·9	1·9	1·4
25 ...	2·1	3·5	3·5	5·1	5·0	3·2	2·4	6·2	**14·0**	**1·2**	1·6	1·1
26 ...	1·7	**1·0**	4·5	4·8	2·6	4·5	2·8	5·3	3·2	1·9	1·7	1·6
27 ...	2·1	1·8	4·8	2·8	2·8	2·4	5·0	5·1	5·1	1·7	2·1	2·1
28 ...	2·5	2·1	3·9	3·5	2·9	3·4	5·8	6·1	4·1	1·5	**1·1**	1·7
29 ...	**4·7**		2·1	3·3	4·3	3·5	3·5	**4·4**	3·3	1·6	2·1	2·1
30 ...	4·5		**6·0**	5·1	3·8	4·6	5·0	4·5	6·6	2·3	**5·9**	1·7
31 ...	2·7		5·1		4·4		5·2	5·2		1·5		2·3
Monthly Mean ...	2·71	2·70	2·94	4·22	4·29	4·12	3·81	5·52	5·05	2·93	2·03	2·11

Table XIe.—*Diurnal ranges of Declination.*

Unity = 1 minute arc.

1910. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 ...	**1·3**	1·9	2·0	3·1	3·2	**2·9**	3·2	5·6	7·5	3·6	2·2	2·8
2 ...	1·4	2·5	2·5	3·4	3·8	3·4	4·0	4·5	6·5	3·6	**3·6**	2·2
3 ...	1·8	1·9	2·0	3·4	2·6	**6·9**	4·3	**3·1**	6·6	4·1	1·4	2·3
4 ...	3·2	**1·4**	1·7	3·7	3·8	5·3	5·4	5·6	5·5	4·0	2·8	2·1
5 ...	4·1	2·7	2·1	3·6	3·7	4·5	3·6	4·9	5·1	2·5	1·7	2·6
6 ...	1·8	1·6	**1·2**	4·0	**5·9**	6·2	3·5	4·9	**7·8**	3·2	1·5	2·4
7 ...	3·5	1·6	2·3	4·2	4·3	4·6	5·4	6·1	6·1	2·8	1·8	2·8
8 ...	3·0	2·5	2·1	5·1	3·3	5·6	5·5	4·0	4·7	3·4	1·7	1·8
9 ...	2·1	2·6	3·0	4·0	4·7	4·2	3·5	5·8	6·2	1·8	1·5	1·4
10 ...	1·7	2·3	3·6	4·4	3·0	5·0	4·4	6·1	6·0	3·2	1·3	2·4
11 ...	2·1	2·5	2·9	4·8	3·8	4·3	4·1	4·7	5·1	1·9	1·5	**1·2**
12 ...	3·1	2·9	2·2	3·7	4·5	3·2	3·2	5·8	5·6	2·6	1·7	2·4
13 ...	3·1	3·4	2·5	4·6	3·7	5·8	**3·0**	4·4	5·6	3·3	**1·2**	**3·1**
14 ...	3·1	3·4	2·2	3·7	4·8	4·3	4·7	6·3	5·8	2·2	1·8	1·8
15 ...	3·5	2·2	2·0	4·3	4·1	4·5	4·1	5·2	6·0	2·0	2·0	2·8
16 ...	**4·4**	2·4	2·3	4·9	**1·4**	5·6	3·9	4·6	4·8	2·9	1·8	1·6
17 ...	3·7	1·9	2·3	**5·6**	2·6	5·8	4·3	6·6	4·8	3·5	2·7	2·4
18 ...	3·5	1·9	3·5	4·2	4·6	6·3	3·4	7·5	4·9	2·8	3·2	2·2
19 ...	2·3	2·4	1·9	3·6	2·7	6·4	**6·7**	6·0	5·6	4·7	3·2	2·9
20 ...	2·2	2·5	1·6	4·4	5·8	5·9	3·6	5·8	4·5	3·1	1·5	2·5
21 ...	2·3	3·5	2·9	3·2	4·7	5·2	5·5	**7·8**	**3·1**	2·5	1·9	1·6
22 ...	2·7	2·3	2·6	5·5	5·6	4·9	3·3	7·0	5·9	3·2	1·9	1·7
23 ...	3·2	2·3	3·1	5·0	5·9	6·8	4·6	5·6	6·0	2·4	1·7	2·0
24 ...	2·3	2·4	3·2	3·3	4·3	5·6	5·4	7·2	3·7	2·8	1·5	2·1
25 ...	2·7	**4·4**	3·5	4·1	4·2	5·4	3·6	6·3	3·4	1·6	2·2	2·6
26 ...	1·6	2·7	2·4	4·4	4·4	5·1	6·2	5·0	4·9	2·4	2·7	2·7
27 ...	3·1	1·8	**5·6**	2·8	3·3	6·3	4·8	6·4	3·8	**5·0**	1·6	2·0
28 ...	1·4	2·5	2·9	4·4	5·4	5·6	4·4	6·6	5·2	**1·4**	2·9	2·5
29 ...	2·6		1·9	**2·4**	3·9	5·0	4·3	6·1	4·5	2·4	2·5	2·2
30 ...	3·3		3·7	2·9	5·6	3·3	3·7	4·0	4·9	2·5	2·1	1·8
31 ...	1·7		4·0		5·3		4·0	5·3		2·2		2·2
Monthly Mean ...	2·64	2·44	2·64	4·02	4·16	5·13	4·31	5·64	5·34	2·89	2·04	2·23

Horizontal Force Magnetograph.

TABLE XII*a*.—*Showing the mean diurnal inequality of Horizontal Force for each month of the year 1906, and for the whole year.*

Unity = 0·1γ

1906. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
10 19	+174	+266	+330	+388	+325	+299	+311	+237	+242	+287	+222	+202	+274
11 19	+210	+301	+392	+423	+355	+315	+332	+263	+289	+353	+258	+209	+308
12 19	+186	+272	+366	+381	+321	+293	+303	+256	+260	+323	+204	+180	+279
13 19	+128	+194	+277	+277	+241	+252	+242	+214	+198	+201	+121	+102	+204
14 19	+ 84	+104	+163	+158	+135	+159	+143	+145	+128	+ 74	+ 54	+ 45	+116
15 19	+ 35	+ 15	+ 48	+ 42	+ 30	+ 45	+ 22	+ 57	+ 43	− 11	− 5	− 9	+ 26
16 19	− 10	− 47	− 36	− 43	− 45	− 42	− 64	− 14	− 9	− 67	− 46	− 31	− 38
17 19	− 35	− 72	− 80	− 86	− 101	− 102	− 107	− 60	− 58	− 95	− 72	− 85	− 79
18 19	− 59	− 89	− 104	− 107	− 127	− 143	− 120	− 87	− 68	− 112	− 84	− 72	− 98
19 19	− 76	− 120	− 132	− 119	− 133	− 146	− 135	− 103	− 98	− 121	− 96	− 77	− 113
20 19	− 88	− 150	− 150	− 145	− 138	− 139	− 123	− 120	− 101	− 120	− 97	− 92	− 122
21 19*	− 107	− 158	− 164	− 153	− 138	− 123	− 130	− 126	− 101	− 117	− 102	− 79	− 125
22 19	− 106	− 182	− 152	− 147	− 118	− 113	− 136	− 123	− 84	− 110	− 83	− 87	− 120
23 19	− 99	− 135	− 148	− 152	− 112	− 110	− 132	− 112	− 93	− 108	− 72	− 89	− 113
0 19	− 75	− 139	− 138	− 160	− 108	− 115	− 128	− 99	− 70	− 78	− 70	− 85	− 105
1 19	− 67	− 113	− 135	− 127	− 109	− 110	− 106	− 88	− 74	− 85	− 63	− 68	− 95
2 19	− 60	− 93	− 131	− 139	− 103	− 103	− 116	− 95	− 67	− 79	− 69	− 53	− 92
3 19	− 57	− 73	− 118	− 136	− 110	− 110	− 121	− 95	− 77	− 78	− 69	− 41	− 90
4 19	− 56	− 73	− 121	− 131	− 114	− 105	− 113	− 82	− 85	− 70	− 63	− 51	− 89
5 19	− 51	− 51	− 111	− 123	− 123	− 105	− 99	− 85	− 75	− 68	− 51	− 31	− 81
6 19	− 28	− 17	− 93	− 120	− 94	− 70	− 71	− 64	− 100	− 80	− 34	− 17	− 66
7 19	− 4	+ 39	− 42	− 77	− 36	− 11	+ 20	− 27	− 103	− 51	+ 17	+ 33	− 20
8 19	+ 52	+118	+ 65	+ 57	+ 87	+ 88	+115	+ 47	− 25	+ 35	+ 72	+ 77	+ 66
9 19	+105	+205	+216	+248	+215	+195	+211	+165	+130	+172	+130	+123	+176
Range ...	317	483	556	583	493	461	468	389	392	474	360	301	433
*Summed Range ...	1,952	3,026	3,712	3,943	3,418	3,293	3,400	2,761	2,578	2,895	2,154	1,938	2,895

TABLE XII*b*.—*Showing the mean diurnal inequality of Horizontal Force for each month of the year 1907, and for the whole year.*

Unity = 0·1γ

1907. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb r.	October.	November.	December.	Year.
H. m.													
9 52	+199	+283	+329	+363	+287	+274	+239	+223	+248	+226	+280	+250	+267
10 52	+274	343	+414	+441	+331	+340	+253	+299	+346	+330	+331	+294	+333
11 52	+275	+363	+398	+419	+308	+340	+274	+311	+371	+354	+309	+242	+330
12 52	+207	+287	+302	+336	+226	+287	+238	+284	+318	+274	+238	+171	+264
13 52	+155	+136	+200	+202	+137	+183	+180	+210	+231	+148	+129	+ 91	+167
14 52	+ 65	+ 8	+ 90	+ 75	+ 32	+ 61	+ 79	+ 93	+130	+ 49	+ 40	+ 16	+ 61
15 52	+ 17	− 58	− 8	− 19	− 43	− 46	− 34	+ 10	+ 32	− 8	− 20	− 41	− 18
16 52	− 19	− 106	− 63	− 62	− 91	− 113	− 93	− 66	− 22	− 63	− 85	− 80	− 72
17 52	− 84	− 125	− 70	− 93	− 123	− 129	− 112	− 99	− 67	− 101	− 108	− 101	− 101
18 52	− 117	− 124	− 92	− 116	− 129	− 148	− 126	− 107	− 127	− 135	− 124	− 133	− 123
19 52	− 115	− 136	− 109	− 142	− 120	− 149	− 119	− 136	− 159	− 162	− 158	− 131	− 136
20 52	− 139	− 162	− 132	− 166	− 120	− 148	− 115	− 144	− 173	− 146	− 169	− 121	− 145
21 52	− 122	− 186	− 156	− 180	− 120	− 137	− 113	− 133	− 193	− 134	− 175	− 115	− 147
22 52	− 117	− 177	− 173	− 167	− 105	− 139	− 116	− 128	− 175	− 144	− 145	− 102	− 141
23 52	− 118	− 157	− 177	− 160	− 87	− 121	− 107	− 113	− 137	− 141	− 125	− 107	− 129
0 52	− 98	− 167	− 167	− 161	− 95	− 131	− 97	− 113	− 140	− 88	− 110	− 104	− 123
1 52	− 81	− 111	− 159	− 154	− 108	− 130	− 107	− 96	− 129	− 81	− 78	− 99	− 111
2 52	− 85	− 66	− 136	− 150	− 96	− 109	− 93	− 101	− 92	− 83	− 88	− 93	− 99
3 52	− 90	− 64	− 128	− 133	− 95	− 92	− 87	− 107	− 87	− 73	− 79	− 80	− 93
4 52	− 69	− 17	− 139	− 142	− 85	− 94	− 82	− 94	− 86	− 75	− 70	− 63	− 85
5 52	− 60	− 21	− 127	− 133	− 64	− 60	− 60	− 72	− 85	− 60	− 49	− 24	− 68
6 52	− 13	+ 21	− 88	− 89	− 37	− 1	− 10	− 49	− 88	− 41	− 6	+ 32	− 31
7 52	+ 37	+ 76	+ 11	+ 26	+ 36	+ 73	+ 66	+ 10	− 30	+ 30	+ 85	+111	+ 44
8 52	+100	+161	+174	+200	+161	+183	+142	+116	+110	+127	+183	+190	+154
Range ...	414	549	591	621	460	489	400	455	564	516	506	427	480
*Summed Range ...	2,656	3,355	3,842	4,129	3,036	3,488	2,942	3,114	3,576	3,073	3,184	2,791	3,242

* Summed range means sum without regard to sign of the twenty-four ordinates of the diurnal inequality.
For temperature and aperiodic corrections applicable to the diurnal inequalities *vide* tables XVI and XVIII.

TABLE XIIc.—*Showing the mean diurnal inequality of Horizontal Force for each month of the year 1908, and for the whole year.*

Unity = 0·1γ

1908. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 52	+207	+219	+269	+350	+293	+277	+272	+261	+102	+270	+234	+200	+246
10 52	+255	+267	+336	+399	+315	+339	+337	+328	+207	+359	+275	+252	+306
11 52	+238	+288	+335	+371	+289	+332	+325	+298	+241	+368	+235	+228	+296
12 52	+183	+253	+267	+288	+232	+305	+287	+260	+259	+254	+154	+153	+241
13 52	+104	+164	+177	+174	+139	+203	+200	+169	+168	+114	+ 79	+ 88	+148
14 52	+ 26	+ 92	+ 44	+ 55	+ 59	+101	+112	+ 80	+ 28	- 13	+ 20	+ 29	+ 53
15 52	- 33	+ 1	- 49	- 24	- 29	- 5	- 10	- 9	- 33	- 61	- 36	- 21	- 26
16 52	- 66	- 40	- 85	- 92	-106	- 92	- 90	- 82	- 45	-110	- 96	- 65	- 81
17 52	- 89	- 37	- 98	-122	-128	-148	-133	-136	- 44	-119	- 93	- 90	-103
18 52	- 91	- 80	-107	-139	-135	-154	-137	-137	- 57	-127	-130	-115	-117
19 52	-114	- 99	-135	-150	-141	-147	-144	-153	- 57	-136	-150	-116	-128
20 52	-121	-166	-152	-152	-127	-147	-135	-125	- 97	-145	-164	-123	-138
21 52	-129	-133	-119	-157	-119	-139	-151	-122	-135	-143	-167	-108	-135
22 52	-106	-138	-102	-162	-122	-132	-135	-117	- 77	-115	-101	-102	-117
23 52	- 97	-149	-110	-157	-116	-120	-135	- 96	- 62	- 76	- 80	- 80	-106
0 52	- 95	-135	- 88	-152	- 94	-125	-131	- 87	- 61	- 92	- 74	- 74	-101
1 52	- 81	-112	-104	-127	- 91	-116	-124	- 87	- 31	- 84	- 58	- 55	- 89
2 52	- 75	-116	- 98	-111	- 80	-120	-123	- 94	+ 42	- 83	- 44	- 53	- 80
3 52	- 49	- 89	- 86	-120	- 78	-130	-119	- 89	+ 5	- 70	- 48	- 66	- 78
4 52	- 47	- 75	-113	-103	- 81	-119	-111	- 89	- 18	- 64	- 40	- 39	- 75
5 52	- 30	- 65	- 99	- 93	- 71	- 92	- 96	- 86	- 78	- 63	- 14	- 25	- 68
6 52	+ 5	- 26	- 68	- 47	- 34	- 18	- 26	- 49	-125	- 51	+ 31	+ 2	- 34
7 52	+ 68	+ 48	+ 27	+ 57	+ 57	+ 76	+ 76	+ 15	-132	+ 32	+104	+ 59	+ 41
8 52	+132	+131	+153	+219	+168	+172	+191	+152	- 5	+157	+164	+124	+146
Range ...	384	454	488	561	456	493	488	481	394	513	442	375	444
Summed Range ..	2,441	2,923	3,221	3,821	3,104	3,609	3,600	3,121	2,109	3,106	2,591	2,267	2,953

TABLE XIId.—*Showing the mean diurnal inequality of Horizontal Force for each month of the year 1909, and for the whole year.*

Unity = 0·1γ

1909. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 52	+183	+176	+291	+354	+311	+203	+207	+225	+243	+212	+314	+223	+245
10 52	+239	+227	+379	+433	+334	+285	+293	+273	+337	+280	+350	+276	+309
11 52	+230	+263	+365	+387	+302	+307	+283	+268	+371	+289	+285	+256	+300
12 52	+185	+193	+291	+295	+261	+285	+247	+239	+338	+200	+201	+175	+242
13 52	+ 90	+ 92	+174	+176	+158	+215	+181	+154	+274	+113	+ 92	+ 89	+151
14 52	+ 42	+ 19	+ 63	+ 55	+ 62	+107	+ 83	+ 54	+185	+ 37	- 14	+ 30	+ 60
15 52	+ 11	- 46	- 26	- 29	+ 7	- 7	- 17	- 56	+ 93	- 28	- 78	- 24	- 17
16 52	- 11	- 79	- 68	- 87	- 54	- 96	- 82	-129	+ 60	-109	-125	- 67	- 71
17 52	- 57	- 99	- 74	-129	-111	-134	-131	-134	- 48	-136	-142	- 94	-107
18 52	-115	- 81	-129	-155	-129	-140	-126	-122	-228	-157	-141	-110	-136
19 52	-155	-113	-170	-168	-141	-131	-124	-132	-207	-172	-167	-123	-150
20 52	-120	-104	-207	-188	-158	-128	-117	-125	-257	-154	-179	-134	-156
21 52	-112	-108	-173	-185	-136	-120	-113	-104	-267	-147	-150	-145	-147
22 52	-108	- 85	-131	-166	-142	-117	-106	- 92	-173	- 87	-115	-144	-122
23 52	- 60	- 90	-143	-152	-175	-100	- 99	- 86	-174	- 71	-101	-113	-114
0 52	- 75	- 68	-137	-123	-138	-100	- 88	- 64	-157	- 60	- 93	-101	-100
1 52	- 39	- 67	-105	-114	-125	-105	- 98	- 57	-107	- 41	- 99	- 84	- 87
2 52	- 67	- 66	- 78	-101	-112	- 98	- 72	- 67	- 93	- 47	- 76	- 69	- 79
3 52	- 63	- 63	- 65	-101	- 95	- 98	- 76	- 66	- 72	- 43	- 75	- 63	- 73
4 52	- 34	- 61	- 85	- 92	- 81	- 86	- 78	- 55	- 50	- 32	- 52	- 39	- 62
5 52	- 39	- 38	- 73	- 90	- 71	- 67	- 58	- 34	- 46	- 22	- 41	- 20	- 50
6 52	- 40	+ 12	- 62	- 62	- 24	- 29	- 32	- 20	- 65	- 4	+ 34	+ 26	- 22
7 52	+ 4	+ 57	+ 17	+ 33	+ 78	+ 39	+ 17	+ 12	- 39	+ 46	+131	+ 98	+ 41
8 52	+108	+123	+149	+209	+179	+111	+108	+120	+ 85	+131	+237	+155	+143
Range ...	394	376	586	621	509	447	416	407	638	461	529	421	465
Summed Range ...	2,187	2,330	3,455	3,884	3,384	3,107	2,833	2,688	3,969	2,618	3,292	2,658	2,984

Horizontal Force Magnetograph.

TABLE XIIe.—*Showing the mean diurnal inequality of Horizontal Force for each month of the year 1910, and for the whole year.*

Unity = 0·1γ.

1910. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 52	+144	+208	+244	+278	+193	+216	+207	+233	+155	+216	+236	+176	+209
10 52	**+191**	+238	**+277**	**+309**	+216	**+247**	**+252**	**+270**	+178	+289	**+288**	**+218**	**+248**
11 52	+185	**+240**	+261	+272	**+225**	+244	**+256**	+243	**+182**	**+292**	+256	+186	+237
12 52	+133	+181	+185	+196	+178	+215	+221	+216	+166	+223	+175	+130	+185
13 52	+ 82	+ 93	+[illegible]95	+ 92	+118	+150	+159	+134	+121	+113	+ 84	+ 55	+108
14 52	+ 29	+ 26	+ 10	+ 15	+ 36	+ 45	+ 76	+ 13	+ 47	+ 4	+ 12	+ 15	+ 27
15 52	- 18	- 30	- 62	- 58	- 45	- 53	- 11	- 58	- 46	-100	- 38	- 24	- 45
16 52	- 63	- 68	- 85	-110	- 94	-104	- 73	-104	- 47	-119	-108	- 54	- 86
17 52	- 85	- 90	- 97	-102	-121	**-121**	-129	-141	**-110**	-115	-115	- 82	-109
18 52	- 87	- 98	-119	**-142**	-124	-117	-143	-145	-110	-131	-135	- 94	-120
19 52	- 96	-126	-132	-134	**-129**	-117	**-154**	**-162**	- 98	-136	-151	-122	**-130**
20 52	- 80	-132	-138	-136	-112	-111	-131	-156	-100	-130	**-170**	**-126**	-127
21 52	**-100**	**-133**	**-143**	-101	- 94	-104	-120	-131	- 73	**-176**	-149	-111	-120
22 52	- 68	- 86	-125	-106	- 80	- 93	-109	-117	- 64	-129	-106	-102	- 99
23 52	- 88	- 98	- 84	- 86	- 68	- 79	- 93	- 76	- 5	- 67	- 95	- 88	- 77
0 52	- 70	- 81	- 76	- 82	- 67	- 79	- 81	- 64	- 19	- 38	- 99	- 66	- 68
1 52	- 48	- 90	- 61	- 59	- 67	- 85	- 79	- 52	- 33	- 49	- 64	- 49	- 61
2 52	- 54	- 55	- 50	- 56	- 60	- 78	- 74	- 47	- 28	- 35	- 53	- 38	- 52
3 52	- 39	- 60	- 33	- 59	- 47	- 85	- 65	- 38	- 8	- 17	- 51	- 34	- 45
4 52	- 28	- 45	- 33	- 48	- 35	- 87	- 58	- 27	- 22	- 23	- 42	- 20	- 39
5 52	- 8	- 23	- 39	- 54	- 31	- 61	- 51	- 32	- 35	- 26	- 17	+ 3	- 31
6 52	+ 16	+ 8	- 18	- 39	- 1	+ 7	- 1	+ 3	- 51	- 16	+ 42	+ 24	- 2
7 52	+ 54	+ 70	+ 65	+ 37	+ 71	+ 94	+ 70	+ 71	+ 42	+ 44	+111	+ 73	+ 60
8 52	+ 95	+155	+158	+169	+139	+150	+127	+171	+ 44	+127	+188	+126	+137
Range ...	291	373	420	451	354	368	410	432	292	468	458	344	378
Summed Range ...	1,861	2,434	2,588	2,740	2,351	2,742	2,740	2,704	1,784	2,615	2,785	2,016	2,422

OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC

Horizontal Force Magnetograph.

TABLE XII*f*.—*Showing for the summer months (April to September), the winter months (January to March and October to December) and the whole year, the mean diurnal inequality of Horizontal Force during the period 1906—1910.*

Unity = 0·1γ.

Bombay Civil Time.	1906.			1907.			1908.			1909.			1910.		
	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.
H.															
10 ...	+300	+247	+274	+272	+261	+267	+259	+233	+246	+257	+233	+245	+214	+204	+209
11 ...	+329	+287	+308	+335	+331	+333	+321	+291	+306	+325	+292	+309	+245	+250	+248
12 ...	+302	+255	+279	+337	+323	+330	+309	+282	+296	+320	+281	+300	+237	+237	+237
13 ...	+237	+170	+204	+281	+246	+264	+272	+211	+241	+277	+207	+242	+199	+171	+185
14 ...	+145	+ 87	+116	+190	+143	+167	+175	+121	+148	+193	+108	+151	+129	+ 87	+108
15 ...	+ 40	+ 12	+ 26	+ 78	+ 45	+ 61	+ 72	+ 33	+ 53	+ 91	+ 29	+ 60	+ 39	+ 16	+ 27
16 ...	- 36	- 39	- 38	- 17	- 20	- 18	- 18	- 33	- 26	- 1	- 32	- 17	- 45	- 45	- 45
17 ...	- 86	- 73	- 79	- 74	- 69	- 72	- 84	- 77	- 81	- 65	- 76	- 71	- 89	- 83	- 86
18 ...	-109	- 87	- 98	-104	- 98	-101	-118	- 88	-103	-114	-100	-107	-121	- 97	-109
19 ...	-122	-104	-113	-125	-121	-123	-126	-108	-117	-150	-122	-136	-130	-111	-120
20 ...	-128	-116	-122	-137	-135	-136	-132	-125	-128	-150	-150	-150	-132	-127	-130
21 ...	-128	-121	-125	-144	-145	-145	-130	-145	-138	-162	-150	-156	-124	-129	-127
22 ...	-120	-120	-120	-146	-148	-147	-137	-133	-135	-154	-139	-147	-104	-135	-120
23 ...	-118	-108	-113	-138	-143	-141	-124	-111	-117	-133	-112	-122	- 95	-102	- 99
0 ...	-113	- 97	-105	-121	-137	-129	-114	- 99	-106	-131	- 96	-114	- 68	- 87	- 77
1 ...	-102	- 88	- 95	-123	-122	-123	-108	- 93	-101	-112	- 89	-100	- 65	- 72	- 68
2 ...	-104	- 81	- 92	-121	-101	-111	- 96	- 82	- 89	-101	- 72	- 87	- 62	- 60	- 61
3 ...	-108	- 73	- 90	-107	- 92	- 99	- 81	- 78	- 80	- 90	- 67	- 79	- 57	- 47	- 52
4 ...	-105	- 72	- 89	-100	- 86	- 93	- 88	- 68	- 78	- 85	- 62	- 73	- 50	- 39	- 45
5 ...	-102	- 60	- 81	- 97	- 72	- 85	- 87	- 63	- 75	- 74	- 50	- 62	- 46	- 32	- 39
6 ...	- 86	- 45	- 66	- 79	- 57	- 68	- 86	- 49	- 68	- 61	- 39	- 50	- 44	- 18	- 31
7 ...	- 39	- 1	- 20	- 46	- 16	- 31	- 50	- 18	- 34	- 39	- 6	- 22	- 14	+ 9	- 2
8 ...	+ 61	+ 70	+ 66	+ 30	+ 58	+ 44	+ 25	+ 56	+ 41	+ 23	+ 59	+ 41	+ 50	+ 69	+ 60
9 ...	+194	+158	+176	+152	+156	+154	+149	+143	+146	+135	+150	+143	+133	+141	+137
Range ...	457	408	433	483	479	480	458	436	444	487	442	465	377	385	378

TABLE XIIIa.—*Showing the mean diurnal inequality of Declination for each month of the year 1906, and for the whole year.*

TABLE XIIIb.—*Showing the mean diurnal inequality of Declination for each month of the year 1907, and for the whole year.*

Unity = 1 minute of arc.

1906. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
10 18 ...	+0·96	+1·05	+0·96	+0·14	−0·64	−0·14	−0·33	−1·13	−0·74	−0·25	−0·36	−0·02	−0·04
11 18 ...	−0·12	+0·19	−0·16	−1·32	−2·07	−1·30	−1·71	−2·11	−2·08	−1·36	−0·86	−0·39	−1·11
12 18 ...	−0·38	−0·38	−1·11	−2·05	−2·76	−1·94	−2·40	−2·46	−2·87	−1·79	−0·71	−0·49	−1·61
13 18 ...	−0·36	−0·51	−1·41	−1·80	−2·33	−1·90	−2·59	−2·23	−2·52	−1·33	−0·16	−0·29	−1·44
14 18 ...	−0·54	−0·45	−0·95	−1·14	−1·48	−1·51	−2·06	−1·40	−1·32	−0·39	+0·14	+0·16	−0·91
15 18 ...	−0·46	−0·34	−0·27	−0·38	−0·65	−0·95	−1·16	−0·36	−0·08	+0·25	+0·25	+0·40	−0·31
16 18 ...	−0·12	−0·14	+0·15	+0·21	+0·12	−0·41	−0·29	+0·43	+0·51	+0·39	+0·22	+0·42	+0·12
17 18 ...	−0·08	−0·10	+0·04	+0·24	+0·41	−0·07	+0·13	+0·60	+0·37	+0·03	+0·14	+0·32	+0·17
18 18 ...	−0·20	−0·17	−0·24	−0·12	+0·15	+0·01	+0·08	+0·20	−0·01	−0·14	+0·12	+0·29	0·00
19 18 ...	+0·08	+0·04	−0·20	−0·36	−0·33	−0·28	−0·35	−0·24	−0·17	−0·10	+0·13	+0·35	−0·12
20 18 ...	+0·10	+0·10	−0·11	−0·34	−0·34	−0·38	−0·43	−0·32	−0·15	−0·05	+0·13	+0·30	−0·12
21 18 ...	+0·01	+0·10	−0·07	−0·25	−0·26	−0·32	−0·27	−0·28	−0·11	+0·01	+0·11	+0·20	−0·09
22 18 ...	−0·06	+0·21	−0·09	−0·11	−0·07	−0·11	−0·10	−0·10	−0·06	+0·06	+0·12	+0·21	−0·01
23 18 ...	0·00	+0·26	−0·01	+0·06	+0·05	+0·07	+0·04	−0·09	+0·07	+0·20	+0·22	+0·30	+0·10
0 18 ...	+0·04	+0·31	+0·10	+0·25	+0·16	+0·25	+0·15	−0·01	+0·15	+0·17	+0·28	+0·32	+0·18
1 18 ..	0·00	+0·26	+0·14	+0·28	+0·23	+0·38	+0·23	+0·04	+0·23	+0·24	+0·30	+0·20	+0·21
2 18 ...	−0·06	+0·19	+0·12	+0·25	+0·22	+0·40	+0·31	+0·19	+0·35	+0·17	+0·26	+0·05	+0·20
3 18 ...	−0·15	−0·06	+0·03	+0·14	+0·21	+0·39	+0·39	+0·26	+0·39	+0·09	+0·06	−0·14	+0·13
4 18 ...	−0·30	−0·29	−0·04	+0·09	+0·31	+0·43	+0·43	+0·33	+0·42	+0·02	−0·06	−0·30	+0·09
5 18 ..	−0·43	−0·52	−0·17	+0·07	+0·72	+0·63	+0·86	+0·82	+0·54	−0·02	−0·19	−0·42	+0·16
6 18 ...	−0·43	−0·68	−0·22	+0·81	+2·00	+1·68	+2·21	+2·26	+1·61	+0·30	−0·32	−0·50	+0·73
7 18 ...	−0·16	−0·57	+0·58	+1·80	+2·71	+2·18	+2·88	+2·88	+2·50	+1·14	−0·21	−0·79	+1·24
8 18 ...	+0·95	+0·40	+1·35	+2·05	+2·51	+1·95	+2·50	+2·24	+2·16	+1·48	+0·20	−0·31	+1·46
9 18 ...	+1·73	+1·14	+1·59	+1·54	+1·05	+1·00	+1·24	+0·54	+0·87	+0·85	+0·22	+0·13	+0·99
Range ...	2·27	1·82	3·00	4·10	5·47	4·12	5·38	5·34	5·37	3·27	1·16	1·21	3·07
Summed range ...	7·72	8·46	10·11	15·80	21·78	18·68	23·05	21·52	20·28	10·83	5·77	7·30	11·54

1907. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 51 ...	+1·01	+0·66	+1·78	+0·40	−0·24	+0·17	+0·23	−0·11	+0·04	+0·34	−0·19	−0·12	+0·33
10 51 ...	+0·02	+0·29	+0·85	−1·10	−1·51	−1·23	−1·00	−1·19	−1·46	−0·81	−0·71	+0·05	−0·65
11 51 ...	−0·77	−0·43	−0·29	−2·21	−2·03	−2·14	−2·06	−1·81	−2·66	−1·52	−0·84	+0·11	−1·39
12 51 ...	−0·44	−0·73	−0·93	−2·45	−2·10	−2·49	−2·17	−1·98	−2·77	−1·36	−0·32	+0·42	−1·44
13 51 ...	−0·24	−0·57	−0·96	−1·92	−1·51	−2·08	−1·98	−1·59	−1·91	−0·71	+0·23	+0·73	−1·04
14 51 ...	+0·19	−0·48	−0·44	−1·06	−0·86	−1·37	−1·31	−0·82	−0·67	−0·10	+0·27	+0·54	−0·51
15 51 ...	+0·50	−0·24	−0·05	−0·10	−0·15	−0·70	−0·66	−0·26	+0·21	+0·14	+0·23	+0·25	−0·07
16 51 ...	+0·31	−0·01	−0·13	+0·39	+0·24	−0·27	−0·16	+0·16	+0·37	+0·02	+0·03	+0·25	+0·10
17 51 ...	−0·08	−0·14	−0·40	+0·25	+0·21	−0·02	+0·06	+0·23	+0·04	−0·33	+0·02	+0·16	0·00
18 51 ...	+0·11	−0·01	−0·44	−0·08	−0·33	−0·22	−0·22	−0·28	−0·10	−0·17	+0·12	+0·24	−0·11
19 51 ...	+0·19	+0·22	−0·34	−0·09	−0·49	−0·34	−0·46	−0·37	−0·11	−0·13	+0·22	+0·27	−0·12
20 51 ...	+0·08	+0·20	−0·30	−0·02	−0·43	−0·30	−0·36	−0·39	+0·01	−0·05	+0·30	+0·15	−0·09
21 51 ...	+0·02	+0·26	−0·26	+0·10	−0·21	−0·14	−0·15	−0·31	+0·10	−0·03	+0·29	+0·10	−0·02
22 51 ...	+0·04	+0·27	−0·17	+0·20	−0·05	+0·06	0·00	−0·15	+0·13	+0·14	+0·27	+0·20	+0·08
23 51 ...	+0·09	+0·33	−0·03	+0·26	+0·09	+0·23	+0·16	+0·03	+0·21	+0·25	+0·35	+0·28	+0·20
0 51 ...	+0·07	+0·45	+0·01	+0·37	+0·27	+0·36	+0·26	+0·20	+0·31	+0·22	+0·38	+0·22	+0·26
1 51 ...	−0·06	+0·44	+0·02	+0·37	+0·35	+0·43	+0·40	+0·35	+0·38	+0·26	+0·29	+0·22	+0·29
2 51 ...	−0·17	+0·19	−0·07	+0·28	+0·37	+0·42	+0·37	+0·46	+0·31	+0·17	+0·14	+0·08	+0·21
3 51 ...	−0·30	−0·04	−0·20	+0·19	+0·32	+0·45	+0·39	+0·53	+0·30	+0·08	−0·01	−0·23	+0·12
4 51 ...	−0·40	−0·29	−0·23	+0·20	+0·41	+0·69	+0·53	+0·62	+0·41	+0·01	−0·13	−0·44	+0·11
5 51 ...	−0·51	−0·46	−0·30	+0·64	+1·19	+1·63	+1·50	+1·20	+0·91	+0·05	−0·29	−0·71	+0·40
6 51 ...	−0·61	−0·65	+0·05	+1·77	+2·39	+2·55	+2·51	+2·11	+2·14	+0·82	−0·48	−1·15	+0·95
7 51 ...	+0·03	−0·04	+1·10	+2·16	+2·51	+2·57	+2·54	+2·10	+2·42	+1·40	−0·13	−1·03	+1·30
8 51 ...	+1·02	+0·62	+1·79	+1·61	+1·52	+1·70	+1·62	+1·22	+1·46	+1·27	+0·02	−0·62	+1·10
Range ...	1·79	1·39	2·75	4·61	4·61	5·06	4·71	4·09	5·19	2·92	1·22	1·88	2·74
Summed range ...	7·26	8·12	11·14	18·22	19·78	22·56	21·10	18·47	19·43	10·38	6·26	8·57	10·89

For the aperiodic corrections applicable to the diurnal inequalities *vide* table XIX.

TABLE XIIIc.—*Showing the mean diurnal inequality of Declination for each month of the year 1908, and for the whole year.*

TABLE XIIId.—*Showing the mean diurnal inequality of Declination for each month of the year 1909, and for the whole year.*

Unity = 1 minute of arc.

1908. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 51 ...	+0·64	+1·03	+0·81	+0·40	−0·15	+0·27	+0·11	−0·60	+0·20	+0·03	−0·03	−0·21	+0·21
10 51 ...	+0·31	+0·85	−0·17	−0·93	−1·54	−0·95	−1·30	−2·32	−1·50	−1·12	−0·67	−0·59	−0·83
11 51 ...	−0·07	+0·31	−1·21	−1·84	−2·28	−2·06	−2·12	−3·22	−2·57	−1·82	−0·56	−0·56	−1·50
12 51 ...	+0·15	+0·14	−1·49	−1·95	−2·36	−2·37	−2·31	−3·09	−2·76	−1·48	+0·08	−0·05	−1·46
13 51 ...	+0·44	−0·02	−1·07	−1·42	−1·76	−1·90	−1·94	−2·37	−2·23	−0·67	+0·47	+0·37	−1·01
14 51 ...	+0·41	−0·24	−0·36	−0·67	−0·89	−1·18	−1·28	−1·21	−1·14	+0·11	+0·50	+0·69	−0·44
15 51 ...	+0·26	−0·22	+0·08	+0·02	−0·14	−0·57	−0·50	+0·08	−0·05	+0·46	+0·40	+0·68	+0·04
16 51 ...	+0·08	−0·23	+0·05	+0·34	+0·37	−0·04	+0·05	+0·75	+0·31	+0·33	+0·19	+0·32	+0·21
17 51 ...	+0·01	−0·28	−0·19	+0·11	+0·33	+0·14	+0·21	+0·76	+0·21	+0·02	+0·11	+0·19	+0·13
18 51 ...	+0·15	−0·11	−0·16	−0·28	−0·16	−0·19	−0·24	+0·12	−0·11	+0·05	+0·14	+0·22	−0·05
19 51 ...	+0·22	0·00	−0·08	−0·38	−0·23	−0·40	−0·40	−0·11	−0·24	0·00	+0·11	+0·21	−0·11
20 51 ...	+0·17	+0·02	−0·06	−0·22	−0·22	−0·30	−0·34	−0·16	−0·10	+0·05	+0·07	+0·11	−0·08
21 51 ...	+0·12	+0·03	−0·01	−0·05	−0·07	−0·12	−0·16	−0·07	+0·07	+0·07	+0·10	+0·12	0·00
22 51 ...	+0·10	+0·08	+0·15	+0·12	+0·03	−0·02	−0·03	−0·05	+0·01	+0·20	+0·13	+0·13	+0·07
23 51 ...	+0·09	+0·16	+0·26	+0·24	+0·14	+0·09	+0·12	+0·06	+0·29	+0·27	+0·09	+0·19	+0·17
0 51 ...	+0·07	+0·13	+0·24	+0·29	+0·27	+0·26	+0·26	+0·10	+0·41	+0·32	+0·09	+0·15	+0·22
1 51 ...	−0·02	+0·07	+0·24	+0·26	+0·25	+0·35	+0·34	+0·24	+0·44	+0·30	+0·03	+0·08	+0·21
2 51 ...	−0·22	−0·02	+0·10	+0·20	+0·27	+0·36	+0·41	+0·37	+0·31	+0·24	−0·04	−0·07	+0·16
3 51 ...	−0·39	−0·24	−0·02	+0·11	+0·26	+0·40	+0·42	+0·53	+0·34	+0·10	−0·16	−0·25	+0·09
4 51 ...	−0·57	−0·46	−0·09	+0·12	+0·42	+0·61	+0·68	+0·85	+0·36	−0·01	−0·27	−0·41	+0·10
5 51 ...	−0·72	−0·67	−0·03	+0·54	+1·30	+1·37	+1·54	+1·95	+1·13	+0·07	−0·35	−0·53	+0·47
6 51 ...	−0·99	−0·82	+0·51	+1·61	+2·27	+2·16	+2·43	+3·06	+2·31	+0·58	−0·51	−0·64	+1·00
7 51 ...	−0·57	−0·28	+1·13	+1·94	+2·45	+2·37	+2·46	+2·85	+2·59	+1·10	−0·11	−0·24	+1·31
8 51 ...	+0·30	+0·65	+1·27	+1·49	+1·48	+1·59	+1·53	+1·41	+1·62	+0·91	+0·15	+0·10	+1·04
Range ...	1·63	1·85	2·76	3·89	4·81	4·74	4·77	6·28	5·35	2·92	1·17	1·33	2·81
Summed Range ...	7·07	7·06	9·78	15·53	19·64	20·07	21·18	26·33	21·30	10·31	5·36	7·11	10·91

1909. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year
H. m.													
9 51 ...	+0·63	−0·25	+0·69	+0·66	−0·53	+0·35	+0·19	−0·16	−0·24	+0·13	−0·30	−0·13	+0·09
10 51 ...	−0·01	−0·65	+0·01	−0·67	−1·46	−0·63	−0·79	−1·67	−1·46	−0·72	−0·59	−0·19	−0·74
11 51 ...	−0·64	−0·86	−0·76	−1·57	−1·99	−1·56	−1·43	−2·50	−2·37	−1·34	−0·42	−0·17	−1·30
12 51 ...	−0·63	−0·32	−1·11	−1·90	−1·97	−1·87	−1·56	−2·53	−2·45	−1·20	+0·16	−0·01	−1·28
13 51 ...	−0·26	+0·39	−0·73	−1·51	−1·33	−1·59	−1·34	−2·07	−1·67	−0·66	+0·69	+0·22	−0·82
14 51 ...	−0·03	+0·76	−0·03	−0·70	−0·65	−1·22	−0·87	−1·17	−0·65	−0·01	+0·81	+0·31	−0·29
15 51 ...	+0·38	+0·89	+0·34	−0·02	−0·13	−0·70	−0·37	−0·19	+0·12	+0·36	+0·54	+0·47	+0·14
16 51 ...	+0·37	+0·42	+0·23	+0·26	+0·16	−0·27	−0·09	+0·34	+0·54	+0·23	+0·15	+0·45	+0·23
17 51 ...	+0·31	−0·06	−0·13	+0·17	+0·13	0·00	+0·09	+0·42	+0·34	+0·02	0·00	+0·27	+0·13
18 51 ...	+0·40	+0·06	−0·20	−0·12	−0·21	−0·23	−0·23	+0·02	−0·28	+0·01	+0·02	+0·29	−0·04
19 51 ...	+0·35	+0·10	−0·20	−0·19	−0·30	−0·40	−0·42	−0·11	−0·09	+0·07	+0·09	+0·28	−0·07
20 51 ...	+0·25	+0·05	−0·12	−0·09	−0·21	−0·32	−0·42	−0·17	−0·02	+0·16	+0·09	+0·30	−0·04
21 51 ...	+0·15	+0·01	−0·12	+0·05	−0·04	−0·16	−0·27	−0·08	+0·22	+0·13	+0·08	+0·27	+0·02
22 51 ...	+0·15	+0·02	−0·04	+0·15	+0·13	+0·06	−0·10	−0·03	+0·28	+0·12	+0·11	+0·27	+0·09
23 51 ...	+0·05	+0·05	+0·08	+0·19	+0·34	+0·23	+0·03	+0·05	+0·33	+0·22	+0·23	+0·27	+0·17
0 51 ...	+0·11	+0·08	+0·14	+0·23	+0·44	+0·38	+0·17	+0·14	+0·37	+0·23	+0·20	+0·23	+0·23
1 51 ...	−0·01	+0·07	+0·10	+0·23	+0·46	+0·48	+0·33	+0·26	+0·38	+0·15	+0·15	+0·12	+0·23
2 51 ...	−0·08	+0·03	−0·04	+0·16	+0·46	+0·49	+0·36	+0·34	+0·39	+0·10	+0·05	−0·03	+0·19
3 51 ...	−0·26	−0·09	−0·10	+0·11	+0·39	+0·43	+0·41	+0·37	+0·35	0·00	−0·13	−0·24	+0·10
4 51 ...	−0·48	−0·23	0·23	+0·05	+0·50	+0·45	+0·50	+0·47	+0·36	−0·12	−0·31	−0·41	+0·05
5 51 ...	−0·53	−0·35	−0·19	+0·28	+1·15	+1·03	+1·23	+1·39	+0·80	−0·12	−0·46	−0·56	+0·31
6 51 ...	−0·66	−0·23	+0·31	+1·10	+1·84	+1·71	+1·80	+2·56	+1·75	+0·43	−0·70	−0·91	+0·75
7 51 ...	−0·14	−0·03	+0·96	+1·62	+1·88	+1·92	+1·77	+2·68	+1·95	+1·02	−0·35	−0·71	+1·05
8 51 ...	+0·52	+0·02	+1·12	+1·43	+1·02	+1·39	+1·10	+1·52	+1·09	+0·80	−0·15	−0·29	+0·80
Range ...	1·29	1·75	2·23	3·52	3·87	3·79	3·36	5·21	4·40	2·36	1·51	1·38	2·35
Summed Range ...	7·40	6·02	7·98	13·46	17·72	17·88	15·87	21·24	18·50	8·35	6·78	7·40	9·16

Declination Magnetograph.

TABLE XIIIe.—*Showing the mean diurnal inequality of Declination for each month of the year 1910, and for the whole year.*

Unity = 1 minute of arc.

1910. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 51	+1·23	+0·02	+0·84	+1·15	−0·21	−0·11	−0·07	−0·64	−0·72	−0·03	+0·07	−0·07	+0·12
10 51	+0·93	−0·43	+0·13	−0·07	−1·32	−1·32	−1·31	−2·09	−2·03	−0·82	−0·40	−0·37	−0·76
11 51	+0·24	−0·61	−0·74	−1·34	−1·97	−2·23	−1·96	−2·83	−2·81	−1·36	−0·50	−0·19	−1·36
12 51	−0·03	−0·22	−1·15	−1·86	−1·97	−2·48	−1·93	−2·85	−2·60	−1·31	−0·22	+0·21	−1·37
13 51	−0·21	+0·40	−0·70	−1·51	−1·45	−2·04	−1·54	−2·04	−1·58	−0·66	+0·04	+0·37	−0·91
14 51	−0·33	+0·73	0·00	−0·78	−0·80	−1·22	−0·75	−0·91	−0·27	+0·15	+0·12	+0·36	−0·31
15 51	−0·14	+0·61	+0·30	−0·16	−0·15	−0·41	−0·08	+0·05	+0·76	+0·71	+0·28	+0·45	+0·18
16 51	0·00	+0·25	+0·14	+0·05	+0·16	+0·09	+0·23	+0·62	+0·89	+0·53	+0·37	+0·44	+0·31
17 51	+0·04	−0·16	−0·23	−0·14	+0·03	+0·15	+0·17	+0·53	+0·47	+0·12	+0·24	+0·36	+0·13
18 51	+0·12	−0·05	−0·26	−0·28	−0·19	−0·26	−0·27	+0·08	+0·10	+0·04	+0·22	+0·34	−0·03
19 51	+0·13	+0·12	−0·21	−0·31	−0·26	−0·36	−0·35	+0·01	+0·02	+0·12	+0·28	+0·29	−0·04
20 51	+0·07	+0·06	0·08	−0·24	−0·24	−0·31	−0·33	+0·03	−0·01	+0·12	+0·29	+0·21	−0·04
21 51	+0·06	+0·03	−0·03	−0·11	−0·10	−0·10	−0·17	+0·10	0·00	+0·19	+0·30	+0·23	+0·03
22 51	+0·08	−0·02	+0·02	+0·03	+0·10	+0·03	−0·01	+0·13	+0·07	+0·34	+0·27	+0·24	+0·11
23 51	+0·10	+0·10	+0·07	+0·12	+0·23	+0·20	+0·08	+0·15	+0·10	+0·27	+0·32	+0·21	+0·16
0 51	+0·07	+0·13	+0·11	+0·19	+0·40	+0·40	+0·20	+0·25	+0·16	+0·22	+0·29	+0·15	+0·21
1 51	−0·07	+0·15	+0·02	+0·16	+0·49	+0·45	+0·30	+0·31	+0·25	+0·16	+0·16	+0·01	+0·20
2 51	−0·15	+0·03	−0·08	+0·13	+0·48	+0·50	+0·35	+0·44	+0·24	+0·01	0·00	−0·19	+0·15
3 51	−0·33	−0·13	−0·20	+0·05	+0·50	+0·57	+0·42	+0·54	+0·23	−0·13	−0·17	−0·36	+0·08
4 51	−0·54	−0·22	−0·29	0·00	+0·54	+0·76	+0·56	+0·74	+0·43	−0·28	−0·42	−0·57	+0·06
5 51	−0·74	−0·32	−0·20	+0·17	+1·07	+1·62	+1·37	+1·58	+0·99	−0·32	−0·59	−0·76	+0·32
6 51	−0·86	−0·44	+0·29	+1·17	+1·79	+2·36	+1·93	+2·36	+2·16	+0·35	−0·78	−0·95	+0·78
7 51	−0·41	−0·20	+0·99	+1·70	+1·79	+2·40	+1·99	+2·24	+2·24	+0·86	−0·20	−0·54	+1·07
8 51	+0·63	+0·20	+1·17	+1·75	+1·12	+1·28	+1·20	+1·07	+0·95	+0·66	+0·12	+0·09	+0·85
Range ...	2·09	1·34	2·32	3·61	3·76	4·88	3·97	5·21	5·05	2·22	1·15	1·40	2·44
Summed Range ...	7·51	5·63	8·25	13·47	17·36	21·65	17·62	22·59	20·08	9·76	6·65	7·96	9·58

Declination Magnetograph.

TABLE XIII*f*.—*Showing for the summer months (April to September), the winter months (January to March and October to December) and the whole year, the mean diurnal inequality of Declination during the period 1906—1910.*

Unity = 1 minute of arc.

Bombay. Civil Time.	1906.			1907.			1908.			1909.			1910.		
	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.
H.															
10 ...	−0·47	+0·39	0·04	+0·08	+0·58	+0·33	+0·04	+0·38	+0·21	+0·04	+0·13	+0·09	−0·10	+0·34	+0·12
11 ...	−1·76	−0·45	−1·11	−1·25	−0·05	−0·65	−1·42	−0·23	−0·83	−1·11	−0·36	−0·74	−1·36	+0·16	−0·76
12 ...	**−2·41**	**−0·81**	**−1·61**	−2·15	**−0·62**	−1·39	−2·35	**−0·65**	**−1·50**	−1·90	**−0·70**	**−1·30**	−2·19	**−0·53**	−1·36
13 ...	−2·21	−0·68	−1·44	**−2·33**	−0·56	**−1·44**	**−2·47**	−0·44	−1·46	**−2·05**	−0·52	−1·28	**−2·29**	−0·45	**−1·37**
14 ...	−1·48	−0·34	−0·91	−1·83	−0·25	−1·04	−1·94	−0·08	−1·01	−1·58	−0·06	−0·82	−1·69	−0·13	−0·91
15 ...	−0·60	−0·03	−0·31	−1·01	−0·09	−0·51	−1·06	+0·18	−0·44	−0·88	+0·30	−0·29	−0·79	+0·17	−0·31
16 ...	+0·09	+0·15	+0·12	−0·28	+0·14	−0·07	−0·19	+0·28	+0·04	−0·21	**+0·50**	+0·14	0·00	+0·37	+0·18
17 ...	+0·28	+0·06	+0·17	+0·12	+0·08	+0·10	+0·30	+0·12	+0·21	+0·16	+0·31	+0·23	+0·34	+0·29	+0·31
18 ...	+0·05	−0·06	0·00	+0·13	−0·13	0·00	+0·29	−0·02	+0·13	+0·19	+0·07	+0·13	+0·20	+0·06	+0·13
19 ...	−0·29	+0·05	−0·12	−0·20	−0·02	−0·11	−0·14	+0·05	−0·05	−0·17	+0·10	−0·04	−0·14	+0·07	−0·03
20 ...	−0·33	+0·08	−0·12	−0·31	+0·07	−0·12	−0·29	+0·08	−0·11	−0·25	+0·11	−0·07	−0·21	+0·12	−0·04
21 ...	−0·25	+0·06	−0·09	−0·25	+0·06	−0·09	−0·22	+0·06	−0·08	−0·20	+0·12	−0·04	−0·18	+0·11	−0·04
22 ...	−0·09	+0·07	−0·01	−0·10	+0·06	−0·02	−0·07	+0·07	0·00	−0·05	+0·09	+0·02	−0·06	+0·13	+0·03
23 ...	+0·03	+0·16	+0·10	+0·03	+0·12	+0·08	+0·01	+0·13	+0·07	+0·08	+0·10	+0·09	+0·06	+0·15	+0·11
0 ...	+0·16	+0·20	+0·18	+0·16	+0·23	+0·20	+0·16	+0·18	+0·17	+0·19	+0·15	+0·17	+0·15	+0·18	+0·16
1 ...	+0·23	+0·19	+0·21	+0·29	+0·22	+0·26	+0·26	+0·17	+0·22	+0·29	+0·16	+0·23	+0·27	+0·16	+0·21
2 ...	+0·29	+0·12	+0·20	+0·38	+0·19	+0·29	+0·31	+0·12	+0·21	+0·36	+0·10	+0·23	+0·33	+0·07	+0·20
3 ...	+0·30	−0·03	+0·13	+0·37	+0·06	+0·21	+0·32	0·00	+0·16	+0·37	0·00	+0·19	+0·36	−0·06	+0·15
4 ...	+0·33	−0·16	+0·09	+0·36	−0·12	+0·12	+0·34	−0·16	+0·09	+0·34	−0·14	+0·10	+0·38	−0·22	+0·08
5 ...	+0·61	−0·29	+0·16	+0·48	−0·25	+0·11	+0·51	−0·30	+0·10	+0·39	−0·30	+0·05	+0·50	−0·39	+0·06
6 ...	+1·76	−0·31	+0·73	+1·18	−0·37	+0·40	+1·30	−0·37	+0·47	+0·98	−0·37	+0·31	+1·13	−0·49	+0·32
7 ...	**+2·49**	0·00	+1·24	+2·24	−0·34	+0·95	+2·31	−0·31	+1·00	+1·79	−0·29	+0·75	+1·96	−0·40	+0·78
8 ...	+2·23	+0·68	**+1·46**	**+2·38**	+0·22	**+1·30**	**+2·44**	+0·17	**+1·31**	**+1·97**	+0·12	**+1·05**	**+2·06**	+0·08	**+1·07**
9 ...	+1·04	**+0·94**	+0·99	+1·52	**+0·68**	+1·10	+1·52	**+0·56**	+1·04	+1·26	+0·34	+0·80	+1·23	**+0·48**	+0·85
Range ...	4·90	1·75	3·07	4·71	1·30	2·74	4·91	1·21	2·81	4·02	1·20	2·35	4·35	1·01	2·44

TABLE XIV*a*.—*Showing the mean diurnal inequality of Vertical Force for each month of the year 1906, and for the whole year.*

TABLE XIV*b*.—*Showing the mean diurnal inequality of Vertical Force for each month of the year 1907, and for the whole year.*

B 8218—dc

Unity = 0·1γ

1906. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year
H. m.													
10 17	-112	- 35	- 92	-219	-259	-135	-172	-202	-246	-195	-102	- 27	-150
11 17	-161	-112	-143	-245	-246	-161	-186	-169	-242	-196	- 88	- 58	-167
12 17	-112	- 91	-138	-195	-177	-140	-152	-119	-165	-117	- 26	- 44	-123
13 17	-101	- 54	- 76	- 93	- 70	- 89	- 80	- 51	- 43	- 15	+ 11	- 6	- 56
14 17	- 83	- 30	- 6	- 9	- 9	- 39	- 14	+ 13	+ 48	+ 49	+ 13	+ 21	- 4
15 17	- 32	- 23	+ 18	+ 36	+ 39	+ 1	+ 46	+ 55	+ 82	+ 55	+ 14	+ 24	+ 26
16 17	+ 5	- 17	+ 7	+ 35	+ 55	+ 21	+ 62	+ 64	+ 50	+ 18	+ 5	+ 17	+ 27
17 17	+ 1	- 18	- 22	+ 1	+ 38	+ 21	+ 44	+ 27	+ 3	- 16	- 3	+ 6	+ 7
18 17	+ 10	- 6	- 28	- 23	+ 5	+ 12	+ 7	- 24	- 7	- 6	+ 7	+ 15	- 3
19 17	+ 29	+ 13	0	- 1	+ 3	- 1	- 13	- 18	- 2	+ 11	+ 10	+ 19	+ 4
20 17	+ 20	+ 12	+ 9	+ 15	+ 24	+ 12	- 2	- 2	+ 18	+ 19	+ 12	+ 13	+ 12
21 17	+ 19	+ 17	+ 10	+ 32	+ 42	+ 29	+ 15	+ 17	+ 26	+ 23	+ 9	+ 7	+ 20
22 17	+ 30	+ 29	+ 23	+ 51	+ 52	+ 41	+ 27	+ 30	+ 40	+ 38	+ 20	+ 13	+ 33
23 17	+ 39	+ 36	+ 42	+ 66	+ 57	+ 49	+ 33	+ 35	+ 51	+ 47	+ 22	+ 12	+ 41
0 17	+ 38	+ 35	+ 39	+ 70	+ 57	+ 49	+ 34	+ 39	+ 57	+ 44	+ 19	+ 8	+ 41
1 17	+ 37	+ 29	+ 40	+ 66	+ 54	+ 43	+ 35	+ 42	+ 62	+ 44	+ 18	- 3	+ 39
2 17	+ 31	+ 28	+ 33	+ 56	+ 52	+ 40	+ 29	+ 46	+ 65	+ 40	+ 13	- 6	+ 36
3 17	+ 29	+ 15	+ 26	+ 48	+ 53	+ 33	+ 31	+ 48	+ 60	+ 35	+ 5	- 13	+ 31
4 17	+ 28	+ 10	+ 25	+ 54	+ 60	+ 38	+ 39	+ 53	+ 60	+ 35	+ 7	- 13	+ 33
5 17	+ 27	+ 6	+ 26	+ 68	+ 95	+ 61	+ 76	+ 90	+ 79	+ 41	+ 9	- 10	+ 47
6 17	+ 38	+ 6	+ 40	+133	+150	+111	+128	+145	+140	+ 74	+ 6	- 9	+ 80
7 17	+ 69	+ 32	+ 91	+117	+107	+ 78	+ 93	+ 85	+ 89	+ 79	+ 31	- 6	+ 72
8 17	+116	+ 73	+ 66	+ 26	- 20	+ 13	0	- 52	- 57	- 6	+ 18	+ 32	+ 17
9 17	+ 46	+ 57	+ 2	- 90	-155	- 78	- 87	-160	-174	-109	- 30	+ 15	- 64
Range ...	267	185	234	378	409	272	314	347	386	275	133	90	247
Summed Range.	1,203	784	1,002	1,749	1,879	1,295	1,405	1 586	1,866	1,312	498	397	1,133

1907. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 50	- 53	- 14	- 50	-204	-227	-163	-157	-154	-188	-168	- 47	+ 43	-115
10 50	-127	- 73	-136	-232	-212	-185	-188	-168	-231	-212	- 61	+ 35	-149
11 50	- 98	-104	-155	-201	-169	-158	-186	-161	-219	-153	- 17	+ 24	-133
12 50	- 27	- 59	-110	- 96	- 91	-100	-117	-103	-123	- 58	+ 27	+ 36	- 68
13 50	+ 3	- 38	- 32	+ 2	- 28	- 32	- 57	- 35	- 20	+ 16	+ 32	+ 28	- 13
14 50	+ 33	- 34	+ 24	+ 65	+ 17	+ 16	0	+ 7	+ 56	+ 33	+ 3	- 3	+ 18
15 50	+ 30	- 5	+ 10	+ 81	+ 50	+ 43	+ 34	+ 30	+ 52	+ 5	- 7	- 3	+ 27
16 50	- 11	- 4	- 28	+ 47	+ 44	+ 38	+ 39	+ 31	+ 3	- 37	- 24	+ 4	+ 8
17 50	- 21	- 21	- 35	+ 2	+ 19	+ 23	+ 29	+ 14	- 30	- 28	- 16	- 1	- 5
18 50	+ 8	+ 7	+ 1	- 6	- 12	- 4	- 5	- 19	- 7	+ 6	- 7	+ 6	- 3
19 50	+ 6	+ 23	+ 15	+ 14	+ 8	+ 7	+ 6	+ 2	+ 7	+ 8	+ 1	+ 6	+ 9
20 50	+ 1	+ 15	+ 14	+ 27	+ 34	+ 21	+ 26	+ 13	+ 21	+ 16	0	- 3	+ 15
21 50	+ 9	+ 21	+ 15	+ 38	+ 51	+ 33	+ 42	+ 29	+ 36	+ 32	+ 4	- 3	+ 26
22 50	+ 20	+ 32	+ 35	+ 50	+ 59	+ 43	+ 50	+ 39	+ 49	+ 45	+ 11	+ 4	+ 36
23 50	+ 21	+ 41	+ 42	+ 56	+ 61	+ 43	+ 48	+ 49	+ 59	+ 46	+ 13	+ 2	+ 40
0 50	+ 20	+ 31	+ 41	+ 58	+ 56	+ 40	+ 47	+ 53	+ 62	+ 43	+ 11	- 6	+ 38
1 50	+ 15	+ 32	+ 39	+ 50	+ 51	+ 38	+ 48	+ 55	+ 63	+ 49	+ 7	- 13	+ 36
2 50	+ 6	+ 19	+ 29	+ 40	+ 45	+ 32	+ 42	+ 53	+ 61	+ 41	- 1	- 20	+ 29
3 50	+ 2	+ 17	+ 23	+ 38	+ 43	+ 38	+ 44	+ 51	+ 61	+ 40	- 1	- 30	+ 27
4 50	+ 10	+ 8	+ 25	+ 47	+ 59	+ 59	+ 59	+ 57	+ 71	+ 48	+ 3	- 30	+ 35
5 50	+ 13	+ 9	+ 32	+ 91	+119	+122	+122	+108	+123	+ 74	+ 7	- 33	+ 66
6 50	+ 13	+ 13	+ 72	+105	+119	+103	+110	+105	+146	+117	+ 17	- 52	+ 72
7 50	+ 73	+ 54	+ 94	+ 17	+ 18	+ 21	+ 35	+ 27	+ 40	+ 62	+ 30	- 6	+ 39
8 50	+ 64	+ 36	+ 44	- 83	-117	- 87	- 68	- 72	- 95	- 33	+ 7	+ 23	- 32
Range ...	200	158	249	337	346	307	310	276	377	329	93	95	221
Summed Range.	684	710	1,101	1,650	1,709	1,449	1,559	1,435	1,823	1,370	354	414	1 039

For temperature and aperiodic corrections applicable to the diurnal inequalities *vide* tables XVII and XX.

TABLE XIV*c*.—*Showing the mean diurnal inequality of Vertical Force for each month of the year 1908, and for the whole year.*

Unity=0·1γ

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 50	+24	+36	− 86	−151	−208	−138	−152	**−220**	−226	−156	− 55	− 60	−116
10 50	− 40	− 11	**−142**	**−182**	**−212**	**−178**	**−203**	−219	**−274**	**−185**	**− 81**	**− 63**	**−149**
11 50	**− 43**	− 35	−137	−150	−186	−172	−174	−151	−236	−138	− 15	− 23	−122
12 50	− 3	− 30	− 55	− 67	−109	− 99	−109	− 60	−125	− 35	+27	+28	− 53
13 50	+ 3	− 44	+ 17	0	− 31	− 14	− 31	− 2	− 35	+ 21	+27	**+53**	− 3
14 50	− 22	**− 54**	+ 46	+ 37	+ 29	+ 33	+ 28	+ 61	+ 35	+ 42	+ 7	+51	+ 24
15 50	− 22	− 35	+ 28	+ 38	+ 62	+ 51	+ 67	+ 97	+ 58	+ 26	− 5	+32	+ 33
16 50	− 19	− 28	− 1	+ 10	+ 56	+ 48	+ 65	+ 77	+ 31	− 18	−18	+ 4	+ 17
17 50	− 9	− 12	− 10	− 17	+ 17	+ 23	+ 32	+ 16	− 1	− 16	− 7	+ 8	+ 2
18 50	+13	+ 8	+ 2	− 22	− 12	− 12	− 9	− 23	0	+ 4	+ 3	+12	− 3
19 50	+12	+ 9	+ 11	− 1	+ 10	+ 1	+ 6	− 9	+ 9	+ 9	+ 4	+ 9	+ 6
20 50	+ 5	+ 5	+ 15	+ 22	+ 22	+ 19	+ 21	+ 5	+ 29	+ 19	+ 3	+ 6	+ 14
21 50	+ 6	+ 8	+ 25	+ 37	+ 41	+ 29	+ 35	+ 20	+ 45	+ 29	+13	+ 8	+ 25
22 50	+14	+17	+ 39	+ 46	+ 50	+ 32	+ 40	+ 28	+ 49	+ 45	+18	+ 6	+ 32
23 50	+10	+21	+ 39	+ 49	+ 53	+ 31	+ 40	+ 35	+ 70	+ 46	+10	+ 4	+ 34
0 50	+ 7	+17	+ 29	+ 46	+ 54	+ 30	+ 41	+ 38	+ 73	+ 43	+ 8	− 1	+ 32
1 50	0	+13	+ 28	+ 40	+ 49	+ 28	+ 40	+ 40	+ 71	+ 43	+ 2	− 9	+ 29
2 50	− 6	+ 6	+ 19	+ 39	+ 47	+ 26	+ 32	+ 43	+ 61	+ 40	+ 1	− 14	+ 24
3 50	− 9	− 3	+ 13	+ 37	+ 51	+ 30	+ 37	+ 48	+ 70	+ 33	− 3	− 21	+ 24
4 50	− 6	− 4	+ 12	+ 46	+ 69	+ 48	+ 53	+ 68	+ 76	+ 37	+ 2	− 15	+ 32
5 50	− 7	− 6	+ 28	+ 88	**+130**	**+103**	**+113**	**+137**	+147	+ 54	+ 4	− 9	+ 65
6 50	− 20	− 1	**+ 57**	**+ 98**	+111	+ 99	+102	+118	**+157**	**+ 76**	+14	− 5	+ 67
7 50	+39	+48	+ 34	+ 24	+ 19	+ 42	+ 26	0	+ 40	+ 32	**+32**	+13	+ 29
8 50	**+68**	**+71**	− 20	− 60	−104	− 66	− 90	−142	−131	− 53	+ 6	−14	− 45
Range ...	111	125	199	280	342	281	316	357	431	261	113	116	216
Summed Range ...	407	522	893	1,307	1,732	1,352	1,546	1,657	2,049	1,200	365	468	980

TABLE XIV*d*.—*Showing the mean diurnal inequality of Vertical Force for each month of the year 1909, and for the whole year.*

Unity=0·1γ

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 50	− 26	− 49	− 62	−161	**−179**	−111	−115	−205	−218	−143	− 20	+ 27	−105
10 50	− 95	**− 68**	−103	−209	−161	−155	**−131**	**−212**	**−247**	**−158**	− 32	+ 20	**−129**
11 50	**−103**	− 15	**−106**	−179	−126	**−159**	−112	−154	−228	−135	+ 6	+ 3	−109
12 50	− 51	+ 70	− 42	−104	− 66	− 96	− 71	− 84	−123	− 49	+ 39	− 2	− 48
13 50	− 16	**+ 94**	+ 42	− 10	+ 4	− 35	− 37	− 15	− 9	+ 19	+ 40	+ 4	+ 7
14 50	+ 4	+ 69	+ 63	+ 49	+ 37	+ 7	+ 8	+ 38	+ 55	+ 37	+ 8	+ 3	+ 31
15 50	+ 32	+ 24	+ 28	+ 60	+ 53	+ 28	+ 31	+ 68	+ 67	+ 22	− 20	+ 17	+ 34
16 50	+ 17	− 44	− 27	+ 29	+ 45	+ 29	+ 31	+ 50	+ 43	− 15	**− 39**	+ 7	+ 10
17 50	+ 5	− 46	− 42	− 5	+ 8	+ 17	+ 26	+ 14	+ 3	− 13	− 26	− 4	− 5
18 50	+ 15	− 15	− 22	− 8	− 7	0	− 6	− 5	− 21	− 1	− 17	+ 2	− 7
19 50	+ 11	− 19	− 17	+ 8	+ 5	+ 6	− 1	+ 5	+ 18	+ 8	− 11	+ 1	+ 1
20 50	+ 6	− 20	− 7	+ 23	+ 22	+ 20	+ 12	+ 15	+ 28	+ 17	− 13	− 4	+ 8
21 50	+ 9	− 16	+ 3	+ 36	+ 30	+ 34	+ 25	+ 26	+ 49	+ 28	− 7	− 5	+ 18
22 50	+ 19	− 14	+ 11	+ 43	+ 39	+ 40	+ 33	+ 33	+ 50	+ 34	+ 1	− 1	+ 24
23 50	+ 15	− 7	+ 21	+ 44	+ 40	+ 38	+ 36	+ 36	+ 52	+ 41	+ 3	− 3	+ 26
0 50	+ 15	− 5	+ 21	+ 45	+ 37	+ 38	+ 33	+ 38	+ 62	+ 38	− 3	− 7	+ 26
1 50	+ 9	− 2	+ 21	+ 44	+ 37	+ 38	+ 36	+ 42	+ 65	+ 33	− 5	− 9	+ 26
2 50	+ 3	− 1	+ 17	+ 39	+ 35	+ 32	+ 31	+ 41	+ 60	+ 29	− 6	− 13	+ 22
3 50	0	0	+ 21	+ 38	+ 30	+ 24	+ 31	+ 43	+ 59	+ 29	− 4	− 20	+ 21
4 50	0	+ 4	+ 21	+ 45	+ 49	+ 34	+ 39	+ 55	+ 64	+ 32	+ 1	− 14	+ 27
5 50	+ 11	+ 12	+ 43	+ 76	**+ 93**	+ 86	**+ 88**	**+128**	+105	+ 56	+ 8	− 10	+ 58
6 50	+ 12	+ 29	**+ 74**	**+101**	+ 79	**+ 87**	+ 64	+126	**+119**	**+ 92**	+ 20	**− 27**	**+ 65**
7 50	**+ 51**	+ 17	+ 55	+ 40	+ 7	+ 37	+ 10	+ 18	+ 31	+ 48	**+ 44**	+ 16	+ 31
8 50	+ 44	− 8	− 1	− 45	− 99	− 49	− 73	−108	− 98	− 50	+ 32	**+ 28**	− 36
Range ...	154	162	180	310	272	246	219	340	366	250	83	55	194
Summed Range ...	569	648	870	1,441	1,288	1,200	1,080	1,559	1,874	1,127	405	247	874

Vertical Force Magnetograph.

TABLE XIVe.—*Showing the mean diurnal inequality of Vertical Force for each month of the year 1910, and for the whole year.*

Unity = 0·1γ.

1910. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	Sept mber.	October.	November.	December.	Year.
H. m.													
9 50	+ 59	− 35	− 74	−127	−177	−158	−146	−200	−225	−124	− 31	+ 5	−103
10 50	− 40	− 59	−118	−187	−177	−166	−180	−216	− 221	−157	− 55	− 3	−132
11 50	− 88	− 19	−117	−187	−152	−146	−143	−176	−180	−118	− 12	+ 21	−110
12 50	− 81	+ 31	− 49	−109	− 81	− 80	− 90	−105	− 82	− 41	+ 11	+ 27	− 54
13 50	− 63	+ 54	+ 24	− 13	− 9	− 7	− 28	− 16	+ 13	+ 27	+ 11	+ 6	0
14 50	− 34	+ 43	+ 42	+ 44	+ 30	+ 44	+ 31	+ 52	+ 72	+ 50	+ 6	+ 9	+ 32
15 50	+ 3	+ 16	+ 18	+ 49	+ 42	+ 75	+ 50	+ 80	+ 82	+ 38	+ 13	+ 25	+ 41
16 50	+ 9	− 18	− 12	+ 22	+ 30	+ 60	+ 35	+ 71	+ 31	− 10	+ 10	+ 13	+ 20
17 50	+ 9	− 18	− 21	− 4	+ 1	+ 24	+ 5	+ 18	− 6	− 20	+ 1	+ 12	0
18 50	+ 15	+ 6	− 4	− 2	+ 1	− 9	− 15	− 1	− 6	+ 5	+ 4	+ 7	0
19 50	+ 18	+ 7	+ 9	+ 9	+ 10	+ 1	+ 2	+ 18	+ 16	+ 12	+ 6	+ 3	+ 9
20 50	+ 9	+ 1	+ 18	+ 23	+ 22	+ 14	+ 14	+ 25	+ 25	+ 12	0	− 6	+ 13
21 50	+ 7	+ 2	+ 25	+ 35	+ 38	+ 30	+ 30	+ 30	+ 34	+ 21	+ 6	− 6	+ 21
22 50	+ 9	+ 1	+ 31	+ 44	+ 45	+ 33	+ 37	+ 35	+ 42	+ 31	+ 5	− 7	+ 25
23 50	+ 5	+ 5	+ 31	+ 43	+ 45	+ 33	+ 37	+ 37	+ 44	+ 27	+ 3	− 15	+ 25
0 50	0	+ 1	+ 28	+ 44	+ 44	+ 38	+ 39	+ 40	+ 45	+ 30	− 4	− 19	+ 24
1 50	− 2	− 5	+ 18	+ 37	+ 45	+ 30	+ 25	+ 43	+ 47	+ 24	− 10	− 22	+ 19
2 50	− 7	− 6	+ 12	+ 34	+ 38	+ 27	+ 38	+ 44	+ 44	+ 21	− 11	− 30	+ 17
3 50	− 8	− 10	+ 10	+ 28	+ 42	+ 26	+ 38	+ 48	+ 47	+ 25	− 15	− 29	+ 17
4 50	− 9	− 9	+ 13	+ 31	+ 49	+ 45	+ 52	+ 64	+ 60	+ 27	− 14	− 28	+ 23
5 50	0	− 1	+ 30	+ 63	+ 92	+ 99	+ 99	+111	+107	+ 42	− 15	− 20	+ 51
6 50	+ 9	− 1	+ 58	+ 99	+ 85	+ 88	+ 87	+ 94	+128	+ 83	+ 5	− 20	+ 60
7 50	+ 72	+ 15	+ 44	+ 44	+ 14	+ 12	+ 41	+ 11	+ 15	+ 36	+ 51	+ 33	+ 32
8 50	+109	+ 7	− 9	− 23	− 77	−102	− 56	−105	−133	− 41	+ 40	+ 38	− 29
Range ...	197	113	176	286	269	265	279	327	353	240	106	68	192
Summed Range ...	665	370	815	1,301	1,346	1,347	1,318	1,640	1,705	1,022	339	404	857

Vertical Force Magnetograph.

TABLE XIV*f*.—*Showing for the summer months (April to September), the winter months (January to March and October to December) and the whole year, the mean diurnal inequality of Vertical Force during the period 1906—1910.*

Unity = 0·1γ.

Bombay Civil Time.	1906.			1907.			1908.			1909.			1910.		
	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.
H.															
10 ...	−205	− 94	−150	−182	− 48	−115	−182	− 49	−116	−165	− 45	−105	−172	− 33	−103
11 ...	−208	−126	−167	−203	− 96	−149	−211	− 87	−149	−186	− 73	−129	−191	− 72	−132
12 ...	−158	− 88	−123	−182	− 84	−133	−178	− 65	−122	−160	− 58	−109	−164	− 55	−110
13 ...	− 71	− 40	− 56	−105	− 32	− 68	− 95	− 11	− 53	− 91	− 6	− 48	− 91	− 17	− 54
14 ...	− 2	− 6	− 4	− 28	+ 1	− 13	− 19	+ 13	− 3	− 17	+ 30	+ 07	− 10	+ 10	0
15 ...	+ 43	+ 9	+ 26	+ 27	+ 9	+ 18	+ 37	+ 12	+ 24	+ 32	+ 31	+ 31	+ 45	+ 19	+ 32
16 ...	+ 48	+ 6	+ 27	+ 48	+ 5	+ 27	+ 62	+ 4	+ 33	+ 51	+ 17	+ 34	+ 63	+ 19	+ 41
17 ...	+ 22	− 9	+ 7	+ 34	− 17	+ 8	+ 48	− 13	+ 17	+ 38	− 17	+ 10	+ 41	− 1	+ 20
18 ...	− 5	− 1	− 3	+ 9	− 20	− 5	+ 12	− 8	+ 2	+ 10	− 21	− 5	+ 6	− 6	0
19 ...	− 5	+ 14	+ 4	− 9	+ 3	− 3	− 13	+ 7	− 3	− 8	− 6	− 7	− 5	+ 5	0
20 ...	+ 11	+ 14	+ 12	+ 7	+ 10	+ 9	+ 3	+ 9	+ 6	+ 7	− 4	+ 1	+ 9	+ 9	+ 9
21 ...	+ 27	+ 14	+ 20	+ 24	+ 7	+ 15	+ 20	+ 9	+ 14	+ 20	− 3	+ 8	+ 20	+ 6	+ 13
22 ...	+ 40	+ 25	+ 33	+ 38	+ 13	+ 26	+ 34	+ 15	+ 25	+ 33	+ 2	+ 18	+ 33	+ 9	+ 21
23 ...	+ 48	+ 33	+ 41	+ 48	+ 24	+ 36	+ 41	+ 23	+ 32	+ 40	+ 8	+ 24	+ 39	+ 12	+ 25
0 ...	+ 51	+ 30	+ 41	+ 53	+ 27	+ 40	+ 46	+ 22	+ 34	+ 41	+ 12	+ 26	+ 40	+ 9	+ 25
1 ...	+ 50	+ 27	+ 39	+ 53	+ 23	+ 38	+ 47	+ 17	+ 32	+ 42	+ 10	+ 26	+ 42	+ 6	+ 24
2 ...	+ 48	+ 23	+ 36	+ 51	+ 21	+ 36	+ 45	+ 13	+ 29	+ 44	+ 8	+ 26	+ 38	0	+ 19
3 ...	+ 45	+ 16	+ 31	+ 45	+ 12	+ 29	+ 41	+ 8	+ 24	+ 40	+ 5	+ 22	+ 37	− 3	+ 17
4 ...	+ 51	+ 15	+ 33	+ 46	+ 8	+ 27	+ 45	+ 2	+ 24	+ 37	+ 4	+ 21	+ 38	− 4	+ 17
5 ...	+ 78	+ 16	+ 47	+ 59	+ 11	+ 35	+ 60	+ 4	+ 32	+ 48	+ 7	+ 27	+ 50	− 3	+ 23
6 ...	+134	+ 26	+ 80	+114	+ 17	+ 66	+120	+ 11	+ 65	+ 96	+ 20	+ 58	+ 95	+ 6	+ 51
7 ...	+ 95	+ 49	+ 72	+115	+ 30	+ 72	+114	+ 20	+ 67	+ 96	+ 33	+ 65	+ 97	+ 22	+ 60
8 ...	− 15	+ 48	+ 17	+ 26	+ 51	+ 39	+ 25	+ 33	+ 29	+ 24	+ 38	+ 31	+ 23	+ 42	+ 32
9 ...	−124	− 3	− 64	− 87	+ 23	− 32	− 99	+ 10	− 45	− 79	+ 7	− 36	− 83	+ 24	− 29
Range ...	342	175	247	318	147	221	331	120	216	282	111	194	288	114	192

TABLE XV*a*.—*Showing the mean diurnal inequality of Inclination for each month of the year 1906, and for the whole year.*

Unity = 1 minute of arc.

1906. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
10 17	-1·47	-1·18	-1·83	-3·04	-3·14	-2·07	-2·41	**-2·39**	-2·76	-2·51	-1·55	-0·89	-2·10
11 17	**-1·98**	**-1·89**	**-2·45**	**-3·36**	**-3·14**	**-2·33**	**-2·59**	-2·22	**-2·88**	**-2·73**	**-1·56**	**-1·16**	**-2·36**
12 17	-1·51	-1·64	-2·32	-2·82	-2·47	-2·09	-2·22	-1·80	-2·18	-2·01	-0·89	-0·96	-1·91
13 17	-1·23	-1·08	-1·53	-1·66	-1·36	-1·55	-1·45	-1·12	-1·01	-0·80	-0·32	-0·39	-1·13
14 17	-0·93	-0·59	-0·60	-0·60	-0·52	-0·85	-0·59	-0·39	-0·05	+0·14	-0·08	+0·02	-0·42
15 17	-0·37	-0·23	-0·02	+0·14	+0·21	-0·14	+0·29	+0·24	+0·51	+0·47	+0·13	+0·22	+0·11
16 17	+0·07	+0·03	+0·18	+0·42	+0·58	+0·31	+0·71	+0·55	+0·42	+0·37	+0·20	+0·23	+0·34
17 17	+0·13	+0·10	+0·10	+0·30	+0·64	+0·51	+0·71	+0·41	+0·22	+0·19	+0·22	+0·34	+0·33
18 17	+0·28	+0·25	+0·13	+0·18	+0·47	+0·57	+0·46	+0·10	+0·17	+0·33	+0·34	+0·36	+0·31
19 17	+0·49	+0·50	+0·44	+0·39	+0·47	+0·48	+0·35	+0·21	+0·31	+0·50	+0·40	**+0·41**	+0·41
20 17	+0·46	+0·60	+0·58	+0·62	+0·66	+0·56	0·39	+0·38	+0·48	+0·55	+0·42	+0·41	+0·50
21 17	+0·51	+0·66	+0·63	+0·77	+0·80	+0·64	+0·56	+0·55	+0·54	+0·57	+0·41	+0·33	+0·58
22 17	+0·60	**+0·84**	+0·69	+0·90	+0·81	+0·70	+0·67	+0·65	+0·60	+0·67	**+0·44**	+0·39	+0·66
23 17	+0·64	+0·73	+0·83	+1·03	+0·83	+0·76	+0·70	+0·66	+0·71	+0·73	+0·41	+0·39	+0·70
0 17	+0·55	+0·75	+0·78	+1·09	+0·81	+0·78	+0·70	+0·64	+0·69	+0·61	+0·39	+0·35	+0·67
1 17	+0·52	+0·61	+0·77	+0·95	+0·80	+0·71	+0·64	+0·63	+0·74	+0·64	+0·35	+0·21	+0·63
2 17	+0·44	+0·53	+0·70	+0·91	+0·76	+0·67	+0·62	+0·68	+0·74	+0·59	+0·33	+0·13	+0·59
3 17	+0·42	+0·37	+0·60	+0·84	+0·79	+0·63	+0·65	+0·70	+0·73	+0·54	+0·27	+0·04	+0·54
4 17	+0·41	+0·33	+0·61	+0·87	+0·85	+0·65	+0·69	+0·70	+0·76	+0·52	+0·27	+0·07	+0·56
5 17	+0·38	+0·22	+0·57	+0·95	+1·16	+0·83	+0·93	+1·00	+0·87	+0·55	+0·24	+0·02	+0·64
6 17	+0·39	+0·11	+0·63	**+1·45**	**+1·50**	**+1·11**	**+1·25**	**+1·36**	**+1·44**	**+0·85**	+0·16	-0·01	**+0·85**
7 17	+0·55	+0·12	**+0·86**	+1·18	+0·96	+0·65	+0·66	+0·76	+1·05	+0·79	+0·18	-0·16	+0·64
8 17	**+0·66**	+0·18	+0·30	+0·01	-0·45	-0·20	-0·39	-0·57	-0·37	-0·17	-0·10	-0·01	-0·09
9 17	+0·01	-0·24	-0·71	-1·55	-1·94	-1·27	-1·40	-1·82	-1·81	-1·44	-0·68	-0·29	-1·09
Range ...	2·64	2·73	3·31	4·81	4·64	3·44	3·84	3·75	4·32	3·58	2·00	1·57	3·21

TABLE XV*b*.—*Showing the mean diurnal inequality of Inclination for each month of the year 1907, and for the whole year.*

Unity = 1 minute of arc.

1907. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 50	-1·09	-1·07	-1·50	-2·84	-2·76	-2·21	-2·05	-1·96	-2·32	-2·08	-1·32	-0·50	-1·81
10 50	**-1·93**	-1·73	-2·47	**-3·32**	**-2·79**	**-2·61**	-2·34	**-2·33**	**-2·99**	**-2·79**	**-1·60**	**-0·71**	**-2·30**
11 50	-1·70	**-2·05**	**-2·57**	-3·00	-2·37	-2·39	**-2·39**	-2·32	-2·97	-2·40	-1·17	-0·63	-2·17
12 50	-0·91	-1·43	-1·89	-1·90	-1·48	-1·76	-1·72	-1·77	-2·04	-1·39	-0·59	-0·30	-1·43
13 50	-0·50	-0·76	-0·93	-0·66	-0·68	-0·87	-1·06	-0·99	-0·94	-0·37	-0·19	-0·09	-0·66
14 50	+0·04	-0·30	-0·11	+0·26	+0·02	-0·08	-0·27	-0·25	0·00	+0·09	-0·12	-0·07	-0·07
15 50	+0·18	+0·16	+0·11	+0·70	+0·54	+0·50	+0·38	+0·21	+0·30	+0·07	+0·01	+0·12	+0·27
16 50	-0·03	+0·33	-0·01	+0·58	+0·66	+0·68	+0·62	+0·46	+0·09	-0·08	+0·10	+0·30	+0·30
17 50	+0·11	+0·25	-0·04	+0·33	+0·57	+0·62	+0·61	+0·44	-0·01	+0·12	+0·24	+0·33	+0·30
18 50	+0·46	+0·48	+0·32	+0·34	+0·35	+0·47	+0·39	+0·21	+0·37	+0·51	+0·36	**+0·50**	+0·40
19 50	+0·44	+0·64	+0·49	+0·59	+0·47	+0·56	+0·45	+0·48	+0·60	+0·61	+0·54	+0·49	+0·53
20 50	+0·48	+0·67	+0·56	+0·77	+0·68	+0·67	+0·59	+0·59	+0·75	+0·62	+0·57	+0·39	+0·61
21 50	+0·48	+0·80	+0·65	+0·91	+0·81	+0·72	+0·71	+0·68	+0·93	+0·70	**+0·62**	+0·37	+0·70
22 50	+0·56	**+0·85**	+0·86	+0·95	+0·81	+0·81	+0·78	+0·74	+0·98	+0·84	+0·58	+0·37	**+0·76**
23 50	**+0·57**	+0·85	**+0·93**	+0·98	+0·77	+0·75	+0·74	+0·77	+0·92	+0·84	+0·52	+0·38	+0·75
0 50	+0·49	+0·80	+0·88	+1·00	+0·76	+0·75	+0·70	+0·80	+0·96	+0·64	+0·46	+0·30	+0·72
1 50	+0·39	+0·63	+0·85	+0·91	+0·77	+0·74	+0·74	+0·75	+0·94	+0·66	+0·32	+0·23	+0·66
2 50	+0·34	+0·37	+0·69	+0·82	+0·67	+0·62	+0·64	+0·76	+0·79	+0·60	+0·29	+0·15	+0·56
3 50	+0·32	+0·35	+0·61	+0·75	+0·66	+0·61	+0·64	+0·76	+0·77	+0·56	+0·26	+0·03	+0·52
4 50	+0·31	+0·12	+0·67	+0·85	+0·75	+0·78	+0·74	+0·77	+0·85	+0·63	+0·26	-0·03	+0·57
5 50	+0·30	+0·14	+0·68	**+1·17**	**+1·16**	**+1·16**	**+1·16**	**+1·09**	+1·26	+0·78	+0·23	-0·18	+0·75
6 50	+0·14	+0·03	+0·87	+1·13	+1·07	+0·81	+0·90	+1·00	**+1·45**	**+1·06**	+0·15	-0·52	+0·67
7 50	+0·44	+0·16	+0·70	+0·04	+0·02	-0·08	+0·06	+0·18	+0·41	+0·39	-0·05	-0·43	+0·16
8 50	+0·16	-0·26	-0·24	-1·33	-1·46	-1·30	-1·02	-0·96	-1·12	-0·69	-0·56	-0·46	-0·77
Range ...	2·50	2·90	3·50	4·49	3·95	3·77	3·55	3·42	4·44	3·85	2·22	1·21	3·06

The diurnal inequality of Inclination is derived directly from the diurnal inequalities of H and V, by the use of the formula $\frac{dI}{\sin 1'} = dV\left(\frac{\cos^2 I}{\sin 1' H}\right) - dH\left(\frac{\sin 2I}{2 \sin 1' H}\right)$, where I is the angle of the Dip, V and H are the absolute values of Vertical Force and Horizontal Force and dI, dV and dH are the ordinates of the diurnal inequality of I, V and H respectively. The factors for dV and dH are determined from the mean annual values of H and I for the years 1906 to 1910; 0·1γ corresponds in arc to 0″·00788, 0″·00787, 0″·00786, 0″·00785 and 0″·00783 for dV and to 0″·00337, 0″·00338, 0″·00340, 0″·00341 and 0″·00342 for dH respectively for these years. It will be seen that the diurnal inequalities derived from these factors are sufficiently accurate for the requirements.

TABLE XV*c*.—*Showing the mean diurnal inequality of Inclination for each month of the year 1908, and for the whole year.*

Unity = 1 minute of arc.

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 50	−0·51	−0·46	−1·59	−2·38	−2·63	−2·02	−2·11	−2·62	−2·13	−2·15	−1·23	−1·15	−1·75
10 50	**−1·18**	−1·00	**−2·26**	**−2·79**	**−2·74**	**−2·55**	**−2·75**	**−2·84**	**−2·85**	**−2·67**	**−1·57**	**−1·36**	**−2·21**
11 50	−1·15	**−1·26**	−2·22	−2·44	−2·44	−2·48	−2·47	−2·20	−2·67	−2·33	−0·92	−0·96	−1·97
12 50	−0·64	−1·10	−1·34	−1·51	−1·65	−1·82	−1·84	−1·35	−1·86	−1·14	−0·31	−0·30	−1·24
13 50	−0·33	−0·91	−0·47	−0·59	−0·71	−0·80	−0·92	−0·59	−0·85	−0·22	−0·06	+0·12	−0·52
14 50	−0·26	−0·73	+0·21	+0·10	+0·03	−0·08	−0·16	+0·21	+0·18	+0·37	−0·01	+0·30	+0·01
15 50	−0·06	−0·28	+0·39	+0·38	+0·59	+0·42	+0·56	+0·79	+0·57	+0·41	+0·08	+0·32	+0·35
16 50	+0·07	−0·08	+0·28	+0·39	+0·80	+0·69	+0·82	+0·89	+0·39	+0·23	+0·19	+0·25	+0·41
17 50	+0·23	+0·04	+0·25	+0·28	+0·57	+0·68	+0·70	+0·59	+0·14	+0·27	+0·26	+0·37	+0·37
18 50	+0·41	+0·33	+0·38	+0·30	+0·37	+0·43	+0·40	+0·29	+0·19	+0·46	+0·46	**+0·48**	+0·38
19 50	+0·48	+0·41	+0·55	+0·50	+0·56	+0·51	+0·54	+0·45	+0·26	+0·53	+0·54	+0·46	+0·49
20 50	+0·45	+0·60	+0·64	+0·69	+0·60	+0·65	+0·63	+0·46	+0·56	+0·64	+0·58	+0·47	+0·58
21 50	**+0·49**	+0·51	+0·60	+0·82	+0·72	+0·70	+0·79	+0·57	+0·81	+0·72	**+0·67**	+0·43	+0·66
22 50	+0·47	+0·60	+0·66	+0·91	+0·80	+0·70	+0·77	+0·62	+0·65	+0·74	+0·48	+0·40	+0·65
23 50	+0·41	**+0·68**	**+0·68**	+0·92	+0·81	+0·65	+0·77	+0·61	+0·76	+0·62	+0·35	+0·30	+0·63
0 50	+0·38	+0·59	+0·53	+0·88	+0·74	+0·66	+0·77	+0·60	+0·78	+0·65	+0·31	+0·24	+0·59
1 50	+0·28	+0·48	+0·57	+0·74	+0·70	+0·61	+0·73	+0·61	+0·67	+0·63	+0·22	+0·12	+0·53
2 50	+0·20	+0·44	+0·48	+0·69	+0·64	+0·61	+0·67	+0·66	+0·34	+0·59	+0·16	+0·07	+0·46
3 50	+0·10	+0·28	+0·39	+0·70	+0·67	+0·68	+0·69	+0·68	+0·53	+0·50	+0·14	+0·05	+0·46
4 50	+0·11	+0·22	+0·47	+0·71	+0·82	+0·78	+0·80	+0·83	+0·66	+0·51	+0·16	+0·01	+0·50
5 50	+0·04	+0·17	+0·56	**+1·01**	**+1·26**	**+1·12**	**+1·22**	**+1·37**	+1·43	+0·63	+0·08	+0·01	**+0·74**
6 50	−0·18	+0·08	+0·68	+0·93	+0·99	+0·84	+0·89	+1·10	**+1·65**	**+0·77**	0·00	−0·05	+0·65
7 50	+0·08	+0·22	+0·18	0·00	−0·04	+0·07	−0·06	−0·05	+0·76	+0·14	−0·10	−0·10	+0·09
8 50	+0·08	+0·11	−0·68	−1·21	−1·39	−1·10	−1·36	−1·64	−1·01	−0·95	−0·51	−0·53	−0·85
Range ...	1·67	1·94	2·94	3·80	4·00	3·67	3·97	4·21	4·50	3·44	2·24	1·84	2·95

TABLE XV*d*.—*Showing the mean diurnal inequality of Inclination for each month of the year 1909, and for the whole year.*

Unity = 1 minute of arc

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
9 50	−0·82	−0·98	−1·48	−2·47	**−2·47**	−1·56	−1·61	−2·38	−2·54	−1·84	−1·23	−0·55	−1·66
10 50	−1·56	**−1·30**	**−2·10**	**−3·12**	−2·40	−2·19	**−2·02**	**−2·59**	**−3·09**	**−2·19**	**−1·44**	−0·78	**−2·06**
11 50	**−1·59**	−1·02	−2·07	−2·73	−2·02	**−2·30**	−1·85	−2·12	−3·06	−2·05	−0·92	**−0·85**	−1·88
12 50	−1·03	−0·11	−1·32	−1·83	−1·41	−1·72	−1·40	−1·47	−2·12	−1·06	−0·38	−0·62	−1·21
13 50	−0·44	+0·43	−0·26	0·68	−0·51	−1·00	−0·91	−0·65	−1·00	−0·24	0·00	−0·27	−0·46
14 50	−0·11	**+0·48**	+0·28	+0·19	+0·08	−0·31	−0·22	+0·12	−0·20	+0·16	+0·11	−0·08	+0·04
15 50	+0·31	+0·35	+0·31	+0·57	+0·40	+0·24	+0·30	+0·72	+0·21	+0·27	+0·11	+0·21	+0·33
16 50	+0·17	−0·08	+0·02	+0·53	+0·53	+0·56	+0·52	+0·83	+0·14	+0·25	+0·12	+0·28	+0·32
17 50	+0·23	−0·02	−0·08	+0·40	+0·44	+0·59	+0·65	+0·57	+0·18	+0·36	+0·28	+0·29	+0·32
18 50	+0·51	+0·16	+0·27	+0·47	+0·39	+0·48	+0·38	+0·38	+0·62	+0·53	+0·35	+0·40	+0·41
19 50	**+0·62**	+0·24	+0·45	+0·63	+0·52	+0·50	+0·41	+0·49	+0·85	+0·65	+0·48	+0·43	+0·52
20 50	+0·46	+0·19	+0·66	+0·82	+0·71	+0·60	+0·49	+0·55	+1·10	+0·66	**+0·51**	+0·43	+0·59
21 50	+0·45	+0·24	+0·61	+0·91	+0·70	+0·68	+0·59	+0·55	**+1·29**	+0·72	+0·46	+0·45	**+0·64**
22 50	+0·52	+0·18	+0·54	+0·91	+0·79	+0·71	+0·62	+0·57	+0·98	+0·57	+0·40	**+0·48**	+0·61
23 50	+0·32	+0·26	+0·65	+0·87	+0·91	+0·64	+0·62	+0·57	+1·00	+0·56	+0·36	+0·37	+0·59
0 50	+0·38	+0·19	+0·63	+0·77	+0·76	+0·64	+0·56	+0·52	+1·03	+0·50	+0·30	+0·29	+0·54
1 50	+0·20	+0·21	+0·52	+0·74	+0·72	+0·66	+0·61	+0·52	+0·87	+0·40	+0·30	+0·22	+0·50
2 50	+0·25	+0·22	+0·40	+0·65	+0·65	+0·58	+0·49	+0·55	+0·79	+0·39	+0·21	+0·14	+0·44
3 50	+0·21	+0·21	+0·38	+0·64	+0·56	+0·52	+0·50	+0·57	+0·71	+0·38	+0·23	+0·05	+0·41
4 50	+0·12	+0·24	+0·45	+0·66	+0·66	+0·56	+0·58	+0·62	+0·67	+0·36	+0·19	+0·02	+0·42
5 50	+0·22	+0·22	+0·59	+0·91	**+0·97**	**+0·91**	**+0·89**	**+1·12**	+0·98	+0·52	+0·20	−0·01	+0·63
6 50	+0·23	+0·19	**+0·79**	**+1·00**	+0·70	+0·78	+0·61	+1·06	+1·15	**+0·73**	+0·04	−0·30	+0·59
7 50	+0·39	−0·06	+0·37	+0·20	−0·22	+0·16	+0·02	+0·10	+0·37	+0·22	−0·10	−0·20	+0·10
8 50	−0·02	−0·48	−0·52	−1·06	−1·39	−0·76	−0·94	−1·26	−1·06	−0·84	−0·56	−0·31	−0·77
Range ...	2·21	1·78	2·89	4·12	3·44	3·21	2·91	3·71	4·38	2·92	1·95	1·33	2·70

TABLE XVe.—*Showing the mean diurnal inequality of Inclination for each month of the year 1910, and for the whole year.*

Unity = 1 minute of arc.

1910. Bombay Civil Time.	Month.												Year.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
H. m.													
9 50 ...	−0·03	−0·98	−1·41	−1·94	−2·05	−1·98	−1·85	−2·37	−2·29	−1·71	−1·05	−0·56	−1·52
10 50 ...	−0·96	**−1·27**	**−1·87**	**−2·52**	**−2·13**	**−2·14**	**−2·27**	**−2·61**	**−2·34**	**−2·22**	**−1·41**	**−0·77**	**−1·88**
11 50 ...	**−1·32**	−0·97	−1·81	−2·39	−1·96	−1·97	−2·00	−2·21	−2·03	−1·92	−0·97	−0·48	−1·67
12 50 ...	−1·08	−0·38	−1·01	−1·52	−1·24	−1·37	−1·46	−1·56	−1·21	−1·08	−0·51	−0·23	−1·05
13 50 ...	−0·77	+0·10	−0·13	−0·41	−0·47	−0·56	−0·76	−0·59	−0·31	−0·18	−0·20	−0·14	−0·37
14 50 ...	−0·37	+0·25	+0·30	+0·29	+0·11	+0·19	−0·02	+0·37	+0·40	+0·38	+0·01	+0·02	+0·16
15 50 ...	+0·08	+0·23	+0·35	+0·58	+0·48	+0·77	+0·43	+0·83	+0·80	+0·64	+0·23	+0·28	+0·47
16 50 ...	+0·29	+0·09	+0·20	+0·55	+0·55	+0·83	+0·52	+0·92	+0·40	+0·33	+0·45	+0·28	+0·45
17 50 ...	+0·36	+0·17	+0·17	+0·32	+0·42	+0·60	+0·38	+0·62	+0·33	+0·23	+0·40	+0·37	+0·37
18 50 ...	+0·42	+0·39	+0·38	+0·47	+0·43	+0·33	+0·37	+0·49	+0·33	+0·49	+0·49	+0·37	+0·41
19 50 ...	+0·47	**+0·48**	+0·52	+0·53	+0·52	+0·41	+0·55	+0·69	+0·47	+0·56	+0·57	**+0·44**	+0·51
20 50 ...	+0·34	+0·46	+0·61	+0·65	+0·55	+0·49	+0·56	+0·73	+0·54	+0·53	**+0·58**	+0·38	+0·53
21 50 ...	+0·39	+0·47	**+0·69**	+0·62	+0·62	+0·59	+0·64	+0·68	+0·52	**+0·76**	+0·56	+0·33	**+0·57**
22 50 ...	+0·30	+0·30	+0·66	+0·70	+0·62	+0·58	+0·66	+0·67	+0·55	+0·68	+0·40	+0·30	+0·54
23 50 ...	+0·34	+0·38	+0·53	+0·63	+0·58	+0·53	+0·61	+0·55	+0·36	+0·44	+0·34	+0·18	+0·46
0 50 ...	+0·24	+0·29	+0·48	+0·62	+0·57	+0·57	+0·59	+0·53	+0·41	+0·36	+0·31	+0·08	+0·42
1 50 ...	+0·14	+0·27	+0·35	+0·49	+0·58	+0·52	+0·47	+0·52	+0·48	+0·36	+0·14	0·00	+0·36
2 50 ...	+0·13	+0·14	+0·26	+0·46	+0·51	+0·48	+0·55	+0·50	+0·44	+0·28	+0·09	−0·10	+0·31
3 50 ...	+0·07	+0·13	+0·19	+0·42	+0·49	+0·49	+0·52	+0·51	+0·40	+0·26	+0·05	−0·11	+0·28
4 50 ...	+0·03	+0·08	+0·21	+0·40	+0·50	+0·65	+0·61	+0·59	+0·55	+0·29	+0·03	−0·15	+0·31
5 50 ...	+0·03	+0·07	+0·36	+0·67	**+0·83**	**+0·99**	**+0·95**	**+0·98**	+0·96	+0·42	−0·06	−0·17	+0·51
6 50 ...	+0·02	−0·04	+0·51	**+0·91**	+0·67	+0·67	+0·68	+0·73	**+1·17**	+0·70	−0·10	−0·24	+0·48
7 50 ...	+0·38	−0·12	+0·12	+0·21	−0·13	−0·23	+0·08	−0·15	+0·26	+0·13	+0·02	+0·01	+0·04
8 50 ...	**+0·53**	−0·48	−0·61	−0·76	−1·08	−1·31	−0·87	−1·40	−1·19	−0·75	−0·33	−0·13	−0·70
Range ...	1·85	1·75	2·56	3·43	2·96	3·13	3·22	3·59	3·51	2·98	1·99	1·21	2·45

TABLE XV*f*.—*Showing for the summer months (April to September), the winter months (January to March and October to December), and the whole year, the mean diurnal inequality of Inclination during the period 1906—1910.*

Unity = 1 minute of arc.

Bombay Civil Time.	1906.			1907.			1908.			1909.			1910.		
	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.
H.	′												′		
10 ...	−2·63	−1·57	−2·10	−2·36	−1·26	−1·81	−2·31	−1·18	−1·75	−2·17	−1·15	−1·66	−2·08	−0·96	−1·52
11 ...	**−2·75**	**−1·96**	**−2·36**	**−2·73**	**−1·87**	**−2·30**	**−2·75**	**−1·67**	**−2·21**	**−2·57**	**−1·56**	**−2·06**	**−2·33**	**−1·42**	**−1·88**
12 ...	−2·26	−1·55	−1·91	−2·57	−1·75	−2·17	−2·45	−1·47	−1·97	−2·35	−1·42	−1·88	−2·09	−1·24	−1·67
13 ...	−1·36	−·089	−1·13	−1·78	−1·08	−1·43	−1·67	−0·80	−1·24	−1·66	−0·75	−1·21	−1·39	−0·71	−1·05
14 ...	−0·50	−0·34	−0·42	−0·87	−0·47	−0·66	−0·74	−0·31	−0·52	−0·79	−0·13	−0·46	−0·52	−0·22	−0·37
15 ...	+0·21	+0·03	+0·11	−0·05	−0·08	−0·07	+0·05	−0·02	+0·01	−0·06	+0·14	+0·04	+0·22	+0·10	+0·16
16 ...	+0·50	+0·18	+0·34	+0·44	+0·11	+0·27	+0·55	+0·14	+0·35	+0·41	+0·24	+0·33	+0·65	+0·30	+0·47
17 ...	+0·46	+0·18	+0·33	+0·51	+0·10	+0·30	+0·66	+0·16	+0·41	+0·52	+0·13	+0·32	+0·63	+0·27	+0·45
18 ...	+0·32	+0·28	+0·31	+0·43	+0·17	+0·30	+0·49	+0·24	+0·37	+0·47	+0·18	+0·32	+0·46	+0·28	+0·37
19 ...	+0·37	+0·46	+0·41	+0·35	+0·44	+0·40	+0·33	+0·42	+0·38	+0·45	+0·37	+0·41	+0·40	+0·42	+0·41
20 ...	+0·51	+0·50	+0·50	+0·52	+0·53	+0·53	+0·47	+0·49	+0·49	+0·57	+0·48	+0·52	+0·53	+0·51	+0·51
21 ...	+0·64	+0·52	+0·58	+0·67	+0·55	+0·61	+0·60	+0·56	+0·58	+0·71	+0·48	+0·59	+0·59	+0·48	+0·53
22 ...	+0·72	+0·60	+0·66	+0·79	+0·60	+0·70	+0·73	**+0·57**	+0·66	+0·79	**+0·49**	**+0·64**	+0·61	**+0·53**	**+0·57**
23 ...	+0·78	**+0·62**	+0·70	+0·84	**+0·68**	**+0·76**	+0·74	+0·56	+0·65	+0·76	+0·45	+0·61	+0·63	+0·44	+0·54
0 ...	+0·78	+0·57	+0·67	+0·82	+0·68	+0·75	+0·75	+0·51	+0·63	+0·77	+0·42	+0·59	+0·54	+0·37	+0·46
1 ...	+0·74	+0·52	+0·63	+0·83	+0·59	+0·72	+0·74	+0·45	+0·59	+0·71	+0·38	+0·54	+0·55	+0·29	+0·42
2 ...	+0·73	+0·45	+0·59	+0·81	+0·51	+0·66	+0·68	+0·38	+0·53	+0·69	+0·31	+0·50	+0·51	+0·21	+0·36
3 ...	+0·72	+0·37	+0·54	+0·72	+0·41	+0·56	+0·60	+0·32	+0·46	+0·62	+0·27	+0·44	+0·49	+0·13	+0·31
4 ...	+0·75	+0·37	+0·56	+0·70	+·035	+0·52	+0·66	+0·24	+0·46	+0·58	+0·24	+0·41	+0·47	+0·10	+0·28
5 ...	+0·96	+0·33	+0·64	+0·79	+·033	+0·57	+0·77	+0·25	+0·50	+0·62	+0·23	+0·42	+0·55	+0·08	+0·31
6 ...	**+1·35**	+0·35	**+0·85**	**+1·17**	+0·32	+0·75	**+1·23**	+0·25	**+0·74**	**+0·95**	+0·29	+0·63	**+0·90**	+0·11	+0·51
7 ...	+0·88	+0·39	+0·64	+1·06	+0·29	+0·67	+1·07	+0·22	+0·65	+0·88	+0·28	+0·59	+0·80	+0·14	+0·48
8 ...	−0·33	+0·14	−0·09	+0·10	+0·20	+0·16	+0·11	+0·07	+0·09	+0·10	+0·10	+0·10	+0·01	+0·09	+0·04
9 ...	−1·63	−0·56	−1·09	−1·20	−·034	−0·77	−1·28	−0·41	−0·85	−1·08	−0·45	−0·77	−1·10	−0·29	−0·70
Range ...	4·10	2·58	3·21	3·90	2·55	3·06	3·98	2·24	2·95	3·53	2·05	2·70	3·23	1·95	2·45

TABLE XVI.—*Showing the mean monthly Temperatures in the Horizontal Force Magnetograph enclosure and the excesses over this mean for each of the five observation hours during the period 1906 to 1910.*

Months.	10 *h.*	14 *h.*	16 *h.*	22 *h.*	6 *h.*	Monthly Mean.
1906.						
January ...	°·00	°·00	°·00	+°·05	−°·05	82°·61
February ...	−·01	−·01	−·02	+·05	−·02	81·66
March ...	−·04	−·03	−·02	+·04	+·02	82·88
April ...	−·04	−·04	−·02	+·03	+·06	86·11
May ...	−·04	−·03	−·03	+·04	+·04	90·18
June ...	+·05	+·02	+·01	−·01	−·05	91·27
July ...	+·01	+·01	·00	·00	−·04	87·58
August ...	+·01	−·01	−·01	·00	·00	87·02
September ...	·00	−·01	−·02	·00	+·02	87·26
October ...	−·04	−·01	·00	+·05	+·01	88·74
November ...	−·02	·00	·00	+·04	−·04	88·37
December ...	−·05	·00	+·01	+·06	−·05	86·41
Year ...	−·01	−·01	−·01	+·03	−·01	86·67
1907.						
January ...	−·01	−·01	·00	+·06	−·03	84°·82
February ...	−·05	−·03	−·02	+·08	+·02	83·80
March ...	−·05	−·04	−·02	+·05	+·06	85·24
April ...	−·04	−·03	−·03	+·04	+·06	88·40
May ...	−·03	−·02	−·02	+·02	+·04	90·71
June ...	+·04	+·02	+·01	−·03	−·06	91·51
July ...	+·04	+·03	+·02	−·03	−·06	89·07
August ...	+·02	+·02	+·01	−·01	−·04	85·42
September ...	−·03	−·02	−·01	+·01	+·04	86·78
October ...	−·01	·00	·00	·00	·00	89·25
November ...	·00	·00	·00	+·04	−·04	88·53
December ...	−·02	−·01	·00	+·07	−·05	85·86
Year ...	−·01	−·01	·00	+·02	·00	87·45
1908.						
January ...	−·01	−·01	−·01	+·06	−·02	83·74
February ...	−·02	−·02	−·01	+·03	+·1	82·89
March ...	−·04	−·03	−·02	+·05	+·04	84·02
April ...	−·03	−·02	−·02	+·04	+·05	87·62
May ...	−·02	−·02	−·02	+·02	+·03	90·90
June ...	+·01	+·01	+·01	−·01	−·04	91·93
July ...	+·07	+·04	+·02	−·03	−·11	87·71
August ...	+·02	·00	+·01	·00	−·03	85·91
September ...	−·01	−·01	−·02	−·01	+·03	86·99
October ...	−·02	−·01	−·01	+·02	+·02	89·34
November ...	+·02	+·02	+·02	+·03	−·07	89·17
December ...	+·01	+·01	+·02	+·02	−·05	86·03
Year ...	·00	·00	·00	+·02	−·01	87·19
1909.						
January ...	+·01	+·02	+·02	−·01	−·03	84·52
February ...	−·03	−·02	·00	+·04	−·01	82·97
March ...	−·05	−·02	−·01	+·04	+·01	84·63
April ...	−·01	−·02	−·01	+·02	+·02	86·65
May ...	−·03	−·02	−·01	+·03	+·03	88·64
June ...	+·01	+·02	+·02	+·02	−·07	89·60
July ...	+·03	+·02	+·01	·00	−·09	85·99
August ...	·03	·00	−·02	+·01	·00	85·78
September ...	+·03	·00	−·02	·00	−·01	86·77
October ...	·00	·00	·00	+·04	−·03	87·05
November ...	−·01	+·02	+·03	+·05	−·12	86·59
December ...	−·01	−·01	·00	+·06	−·06	84·38
Year ...	·00	·00	·00	+·02	−·03	86·13
1910.						
January ...	−·02	·00	+·02	+·08	−·09	82·55
February ...	−·05	−·02	+·02	+·07	−·05	82·13
March ...	−·04	−·02	−·01	+·05	+·03	83·12
April ...	−·03	−·03	−·01	+·04	+·04	86·57
May ...	−·02	−·02	−·02	+·03	+·03	88·97
June ...	+·04	+·03	+·01	−·03	−·07	89·86
1910.						
July ...	+·02	·00	−·01	+·02	−·01	87·24
August ...	+·03	+·01	·00	+·01	−·03	85·95
September ...	+·02	·00	−·01	−·01	−·02	86·49
October ...	−·02	−·01	+·01	+·05	·00	86·77
November ...	−·02	+·01	+·03	+·05	−·09	86·31
December ...	−·02	+·01	+·02	+·07	−·08	83·80
Year ...	−·01	·00	·00	+·04	−·03	85·81

TABLE XVII.—*Showing the mean monthly Temperatures in the Vertical Force Magnetograph enclosure and the excesses over this mean for each of the five observation hours during the period 1906 to 1910.*

Months.	10 h.	14 h.	16 h.	22 h.	6 h.	Monthly Mean.	Months.	10 h.	14 h.	16 h.	22 h.	6 h.	Monthly Mean.
	1906.							1907.					
January ...	°·00	°·00	°·00	°+·05	°−·04	82·65	January ...	°−·01	°−·01	°·00	°+·06	°−·03	84·84
February ...	+·01	−·01	−·02	+·05	−·02	81·70	February ...	−·03	−·03	−·03	+·06	+·02	83 84
March ...	−·03	−·02	−·01	+·03	+·02	82·92	March ...	−·04	−·03	−·02	+·04	+·06	85·27
April ...	−·03	−·03	−·02	+·03	+·05	86·11	April ...	−·03	−·03	−·02	+·02	+·05	88·43
May ...	−·03	−·03	−·03	+·03	+·04	90·18	May ...	−·02	−·02	−·02	+·02	+·04	90·72
June ...	+·05	+·02	·00	−·01	−·05	91·27	June ...	+·04	+·04	+·02	−·02	−·05	91·50
July ...	+·01	+·01	·00	+·01	−·04	87·58	July ...	+·05	+·03	+·02	−·02	−·06	89·07
August ...	+·01	−·01	−·01	+·01	+·01	87·01	August ...	+·02	+·01	+·01	·00	−·005	85·42
September ...	·00	−·01	−·02	−·01	+·02	87·25	September ...	−·04	−·02	−·02	+·02	+·04	86·79
October ...	−·01	−·01	·00	+·03	+·01	88·74	October ...	−·02	−·01	·00	+·02	·00	89·26
November ...	−·01	·00	·00	+·04	−·04	88·37	November ...	·00	·00	+·01	+·05	−·05	88·58
December ...	−·04	+·01	+·02	+·06	−·07	86·39	December ...	−·02	−·02	+·01	+·09	−·04	85·88
Year ...	−·01	−·01	−·01	+·03	−·01	86·68	Year ...	−·01	−·01	·00	+·03	−·01	87·47
	1908.							1909.					
January ...	−·03	−·03	−·02	+·09	−·02	83·85	January ...	−·01	·00	·00	+·03	−·04	84·10
February ...	−·02	−·02	·00	+·05	·00	83·00	February ...	−·03	−·02	·00	+·04	·00	83·02
March ...	−·03	−·02	−·02	+·04	+·03	84·12	March ...	−·05	−·02	·00	+·04	+·02	84·68
April ...	−·04	−·02	−·02	+·04	+·04	87·67	April ...	−·01	−·01	−·01	+·02	+·02	86·70
May ...	−·02	−·01	−·02	+·01	+·03	90·92	May ...	−·03	−·01	−·01	+·03	+·03	88·71
June ...	+·01	+·01	+·01	−·01	−·04	91·93	June ...	+·01	+·01	+·02	+·01	−·07	89·67
July ...	+·06	+·03	+·02	−·01	−·09	87·44	July ...	+·03	+·03	+·02	·00	−·08	85·93
August ...	+·02	+·01	+·01	+·01	−·04	85·45	August ...	−·01	−·01	−·01	·00	·00	85·76
September ...	·00	·00	−·01	+·02	+·01	86·61	September ...	+·03	·00	−·02	−·01	·00	86·77
October ...	·02	−·02	−·02	+·04	+·02	89·01	October ...	−·01	·00	·00	+·04	−·02	87·04
November ...	·00	+·01	+·02	+·06	−·07	88·82	November ...	−·01	+·02	+·03	+·06	−·11	86·58
December ...	−·03	·00	+·02	+·07	−·08	85·63	December ...	−·02	·00	+·01	+0·6	−·06	84·33
Year ...	−·01	·00	·00	+·03	−·02	87·04	Year ...	−·01	·00	·00	+·03	−·03	86·11
	1910.							1910.					
January ...	−·02	·00	+·01	+·07	−·08	82·50	July ...	+·02	·00	·00	+·02	−·02	87·22
February ...	−·06	−·01	+·02	+·09	−·04	82·08	August ...	+·03	+·01	·00	+·01	−·03	85·92
March ...	−·05	−·03	·00	+·05	+·03	83·10	September ...	+·03	+·01	·00	−·01	−·01	86·47
April ...	−·04	−·03	−·01	+·04	+·04	86·59	October ...	−·03	−·01	+·01	+·05	−·01	86·76
May ...	−·02	−·01	−·02	+·03	+·03	89·06	November ...	−·02	+·01	+0·3	+·07	−·09	86·28
June ...	+·04	+·03	+·02	−·02	−·07	89·91	December ...	−·04	+·01	+·04	+·07	−·08	83·73
							Year ...	−·01	·00	+·01	+·04	−·03	85·80

TABLE XVIII.—*Showing the progressive change per day of the Horizontal Force Magnetograph as derived by different processes.*

Unity = 0·1γ = 0·000001 C. G. S.

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	April to September.	October to March.	Year.
(1) Derived from the monthly means of the tabulated ordinates.															
1906 ...	− 7	− 8	− 8	−14	−15	−11	− 9	−11	−10	− 9	− 9	− 8	−12	− 8	−10
1907 ...	−10	− 6	− 4	−10	−11	− 7	4	− 6	−10	− 6	− 1	− 1	− 8	− 5	− 6
1908 ...	− 3	− 6	8	− 9	− 7	− 2	− 3	−11	− 9	− 3	− 1	− 1	− 7	− 4	− 5
1909 ...	− 3	− 3	− 3	− 6	− 5	+ 1	− 2	− 9	−12	− 2	+ 3	0	− 5	− 1	− 3
1910 ...	+ 1	− 3	− 7	− 6	− 3	0	− 2	− 4	− 4	− 2	+ 2	0	− 3	− 1	− 2
(2) Derived from the differences in the daily means of the first and the last day of each month.															
1906 ...	−17	−12	− 4	−18	−15	− 8	−14	− 7	−16	− 5	− 3	−10	−13	− 8	−11
1907 ...	− 5	−11	− 4	− 9	−14	− 3	− 5	− 7	−10	+ 4	− 4	− 5	− 8	− 4	− 6
1908 ...	− 7	− 6	−11	− 2	−11	0	+ 6	−13	−46	− 2	+ 9	+ 2	−11	− 2	− 7
1909 ...	−16	+ 6	−12	+ 1	− 8	+ 1	0	−16	−35	+17	−28	+18	− 9	− 2	− 6
1910 ...	+ 3	− 6	−21	+ 1	− 5	+ 1	− 2	− 9	−16	− 2	0	− 2	− 5	− 5	− 5
(3) Derived from a single tabulated reading at 10 hour of the first day of each month.															
1906 ...	−19	+ 3	− 8	−26	−15	− 5	−22	− 3	− 6	−15	0	−13	−13	− 9	−11
1907 ...	− 8	− 5	0	− 9	−14	−14	− 2	− 8	−18	+ 7	− 3	− 4	−11	− 2	− 6
1908 ...	− 7	− 9	− 7	+12	−28	− 6	+20	− 8	−40	+ 9	0	− 4	− 8	− 3	− 6
1909 ...	−13	+10	− 2	+ 1	−14	0	+ 4	−18	−30	+26	−17	+11	− 9	+ 2	− 3
1910 ...	− 2	− 5	− 7	− 3	− 5	+ 3	+ 3	− 6	−13	+ 1	+ 3	+ 2	− 3	− 1	− 2
(4) Derived from a single tabulated reading at 0 hour of the first day of each month.															
1906 ...	−23	− 8	+ 4	−13	−15	− 4	−14	− 9	−15	− 7	− 4	− 8	−12	− 8	−10
1907 ...	− 2	−16	− 5	− 5	−17	− 2	−13	− 1	− 7	− 6	− 1	− 3	− 7	− 5	− 6
1908 ...	− 5	−15	− 1	− 5	−11	− 5	+ 4	− 4	−41	+11	+10	+ 3	−10	0	− 5
1909 ...	19	+ 7	−11	+ 4	−10	+ 6	− 4	−13	−49	+42	−29	+17	−11	+ 1	− 5
1910 ...	+11	− 7	−23	+ 8	0	− 1	− 1	− 1	−15	+ 4	+ 6	− 6	− 2	− 2	− 2

TABLE XIX.—*Showing the progressive change per day of the Declination Magnetograph as derived by different processes.*

Unity = 0·01 minute of arc.

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	April to September.	October to March.	Year.
(1) Derived from the monthly means of the tabulated ordinates.															
1906 ...	0·00	,0	− 1	− 2	− 1	0	0	0	− 1	− 2	− 1	0	− 1	− 1	− 1
1907 ...	0	0	− 1	0	0	− 1	0	0	0	0	− 1	0	0	0	0
1908 ...	0	0	,0	0	0	− 1	0	0	0	− 1	0	0	0	0	0
1909 ...	0	0	− 1	− 1	0	− 1	0	0	0	− 1	− 1	− 1	0	− 1	0
1910 ...	− 1	0	0	0	0	− 1	0	0	0	0	− 1	− 1	0	0	0
(2) Derived from the differences in the daily means of the first and the last day of each month.															
1906 ...	+ 2	+ 1	− 2	− 1	− 2	+ 1	+ 1	0	− 1	− 2	− 1	− 1	0	0	0
1907 ...	0	0	0	− 1	+ 1	− 2	0	− 1	− 1	− 1	− 1	− 1	− 1	0	− 1
1908 ...	0	0	− 2	− 1	− 1	0	− 1	− 2	+ 6	0	− 2	− 1	0	− 1	0
1909 ...	+ 3	− 1	+ 1	− 3	− 1	+ 1	− 2	+ 2	+ 4	− 5	+ 4	− 4	0	0	0
1910 ...	0	0	+ 1	0	0	− 3	0	+ 1	+ 2	0	+ 1	+ 1	0	0	0
(3) Derived from a single tabulated reading at 10 hour of the first day of each month.															
1906 ...	+ 6	− 5	− 1	− 4	− 4	0	0	+ 1	− 1	− 4	− 1	− 3	− 1	− 1	− 1
1907 ...	+ 3	0	0	− 7	+ 4	− 2	− 4	+ 4	− 2	+ 2	0	− 3	− 1	0	0
1908 ...	+ 6	+ 4	− 9	− 1	0	+ 3	− 3	− 7	+ 5	− 3	0	+ 5	0	0	0
1909 ...	+ 1	− 5	− 7	−16	+ 1	+ 7	− 7	− 1	+11	− 8	+ 1	− 1	− 1	− 3	− 2
1910 ...	0	0	+ 3	− 5	+ 5	− 8	+ 1	− 9	+ 5	0	0	+ 4	− 2	+ 1	0
(4) Derived from a single tabulated reading at 0 hour of the first day of each month.															
1906 ...	+ 3	+ 4	− 7	− 3	− 1	− 1	+ 2	− 2	− 1	− 2	− 1	− 1	− 1	− 1	− 1
1907 ...	− 1	+ 1	− 2	0	+ 1	− 2	0	+ 1	− 4	+ 2	− 1	0	− 1	0	0
1908 ...	0	+ 4	− 3	− 1	− 1	0	− 2	0	+ 7	− 5	− 3	− 1	0	− 1	0
1909 ...	+ 1	− 2	0	− 2	+ 1	− 2	0	0	+ 5	− 7	+ 5	− 4	0	− 1	0
1910 ...	− 4	0	+ 3	− 4	0	− 1	− 1	0	0	− 1	0	− 1	− 1	0	− 1

TABLE XX.—*Showing the progressive change per day of the Vertical Force Magnetograph as derived by different processes.*

Unity = 0·1γ=0·000001 C. G. S.

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	April to September.	October to March.	Year.
(1) Derived from the monthly means of the tabulated ordinates.															
1906 ...	+ 4	+ 6	+ 6	+ 9	+ 1	−12	− 6	+ 8	+15	+18	+ 9	− 3	+ 2	+ 7	+ 5
1907 ...	− 2	+ 4	+12	+14	+ 6	− 6	− 6	+10	+17	+15	+ 5	− 4	+ 5	+ 6	+ 5
1908 ...	− 3	+ 2	+ 8	+14	+ 9	− 4	− 6	+ 3	+14	+15	+ 3	− 5	+ 5	+ 3	+ 4
1909 ...	− 3	+ 7	+14	+19	+14	− 6	− 4	+11	+10	+12	+ 5	0	+ 7	+ 6	+ 7
1910 ...	+ 7	+ 1	+ 7	+20	+13	− 2	− 7	+ 1	+ 8	+13	+ 1	+ 1	+ 5	+ 5	+ 5
(2) Derived from the differences in the daily means of the first and the last day of each month.															
1906 ...	+ 6	+16	− 1	+11	+ 6	−24	+ 1	+13	+16	+21	+15	−13	+ 4	+ 7	+ 6
1907 ...	+ 7	−11	+14	+30	+11	−17	− 1	+16	+14	+21	− 7	−11	+ 9	+ 2	+ 5
1908 ...	− 9	+12	− 8	+22	+17	− 5	−17	− 1	− 9	+ 8	+ 9	− 3	+ 1	+ 1	+ 1
1909 ...	+ 6	+19	+ 3	+30	+14	− 6	−19	+16	+13	+ 7	+20	−15	+ 8	+ 7	+ 7
1910 ...	+ 2	+ 8	+ 2	+30	+23	−13	+ 2	− 9	+ 6	+17	+23	−21	+ 6	+ 5	+ 6
(3) Derived from a single tabulated reading at 10 hour of the first day of each month.															
1906 ...	+11	+ 8	− 9	+ 4	+18	−32	+ 9	− 1	+20	+17	+17	−11	+ 3	+ 5	+ 4
1907 ...	+ 8	− 9	+11	+22	+11	−14	+ 1	+12	+12	+27	+ 4	− 7	+ 7	+ 6	+ 6
1908 ...	− 6	+13	−12	+18	+21	− 4	−20	− 4	− 5	+14	+ 7	− 8	+ 1	+ 1	+ 1
1909 ...	+ 2	+15	+ 3	+27	+ 8	− 1	−22	+12	+28	+10	+10	− 9	+ 9	+ 5	+ 7
1910 ...	+ 4	0	+ 2	+26	+24	−12	− 7	− 8	+ 7	+12	+31	−25	+ 5	+ 4	+ 4
(4) Derived from a single tabulated readinig at 0 hour of the first day of each month.															
1906 ...	+ 9	+14	− 4	+10	+ 5	−24	0	+14	+11	+20	+ 8	−11	+ 3	+ 6	+ 4
1907 ...	+ 6	− 5	+12	+29	+ 9	−16	− 4	+19	+13	+22	− 7	− 3	+ 8	+ 4	+ 6
1908 ...	− 7	+12	− 1	+23	+14	− 3	−18	0	− 8	− 9	+ 4	− 1	+ 1	0	+ 1
1909 ...	+ 2	+ 3	+ 6	+32	+14	− 9	−18	+15	+20	+ 9	+17	−10	+ 9	+ 4	+ 7
1910 ...	+ 6	+10	0	+29	+20	−11	0	−10	+ 6	+14	+20	−19	+ 6	+ 5	+ 5

APPENDIX A.

ABSOLUTE VALUES AND THE DIURNAL INEQUALITIES OF HORIZONTAL FORCE, DECLINATION AND VERTICAL FORCE, AS DERIVED FROM QUIET DAYS FOR THE YEARS 1906 TO 1910.

While continuing the usual process adopted in this observatory for obtaining the absolute values and the diurnal inequalities from all (unrestricted) days of the year, the results of which have already been given in this volume in the magnetic data, the following tables contain similar results for quiet days, on lines adopted in the " Colaba Magnetic Data," Part II, Chapter XI.

Tables I, II and III give the mean monthly absolute values of H, D and V, derived from *all* days, from different sets of quiet days, and their differences. It will be seen from the results that the conclusions drawn in the " Colaba Magnetic Data " have all more or less been confirmed by the present data. Quiet conditions usually connote high values of H, low values of V and of Easterly Declination at Colaba. In regard to Vertical Force results however the differences between the all-day and the quiet day results are much greater and irregular than noted in the previous discussion. This is due to the method of use of the Vertical Force Magnetograph adopted in the two results. In the Colaba instrument which gave the former result, the magnet was never disturbed from its position of rest, while in the Alibag Magnetograph, giving the latter result, the magnet is daily raised on its Ys and put back in position. The latter procedure, it will be seen, while conducing to better conditions for securing variations, is fatal to the correct registration of absolute values of force due to the failure of the balance to regain after the operation, its original position of rest resulting in the displacement of the base line. This and other considerations, revealed in investigation, have resulted in altering the usual method of observation at Alibag. While retaining the routine of observations twice in the week of H and D which were found sufficient in number to ensure accurate daily values of these two elements, for the element V daily observations with the Inductor were considered essential and have been introduced since. This allows the values of the base line and thence the correct absolute values of V to be determined from day to day. The discrepancies noted above hence in the results of V, have after the adoption of these measures completely disappeared.

Tables IV to X give the results of the diurnal inequalities of H, D and V derived severally from quiet days selected by the Astronomer Royal, from quiet days selected by the International Commission of Terrestrial Magnetism, and from quiet days selected locally. Diurnal inequalities determined from the Astronomer Royal's days thus extend the series which is already published in the Colaba Magnetic Data, Part II, Chapter XI, from 1894—1905, up to 1910. The diurnal inequalities published in the present volume have been given uncorrected for the aperiodic change; however the values of the elements for the initial and the terminal hours have been given to allow of the corrections to be determined and applied, if wanted. It must be noted that for quiet days selected by the Astronomer Royal, the diurnal inequalities are derived from 0^h to 24^h Bombay Civil Mean Time as has been done in similar results published elsewhere from the year 1894. The same hours have also been taken as the initial and terminal hours for the quiet days selected locally. For quiet days selected by the International Commission, however, the days are reckoned from 5^h to 5^h of local time corresponding to the Greenwich civil day 0^h to 24^h so as to have the inequalities at different observatories all over the world strictly simultaneous. Up to the end of 1906, the tabulations of the V, D and H magnetograms were made at 17, 18 and 19 minutes past the full hour which were the times adopted at Colaba ever since the commencement of the Magnetograph record in 1872. From the 1st January 1907, however, these times were respectively altered to 10, 9 and 8 minutes before the full hour in order that the mean time of the tabulations may correspond as near as possible to the exact full hour of Greenwich mean time.

TABLE I.—*Absolute values of Horizontal Force derived from all days, and from quiet days (1) selected by the Astronomer Royal, (2) selected by the International Commission of Terrestrial Magnetism, and (3) selected locally.*

All days.

0·360000 c. g. s. +

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1906 ...	8757	8627	8740	8795	8777	8827	8765	8773	8682	8744	8745	8636	8739
1907 ...	8625	8371	8622	8705	8663	8689	8646	8649	8597	8561	8596	8694	8618
1908 ...	8684	8673	8595	8608	8576	8703	8685	8563	8266	8463	8437	8567	8568
1909 ...	8433	8468	8462	8619	8462	8613	8604	8528	8253	8073	8385	8370	8439
1910 ...	8432	8483	8446	8407	8433	8549	8579	8418	8429	8363	8462	8479	8457

Quiet days selected by the Astronomer Royal.

0·360000 c. g. s. +

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1906 ...	8757	8671	8817	8840	8782	8856	8814	8825	8749	8782	8766	8688	8779
1907 ...	8662	8680	8720	8778	8722	8724	8722	8705	8658	8621	8687	8725	8700
1908 ...	8794	8750	8776	8698	8688	8720	8709	8617	8544	8630	8561	8611	8675
1909 ...	8518	8548	8587	8703	8649	8606	8655	8595	8598	8229	8436	8420	8546
1910 ...	8514	8537	8612	8547	8504	8632	8617	8488	8484	8513	8563	8526	8545

Quiet days selected by the International Commission of Terrestrial Magnetism.

0·360000 c. g. s. +

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1906 ...	8819	8676	8890	8846	8793	8892	8762	8830	8776	8825	8800	8684	8799
1907 ...	8683	8693	8696	8782	8755	8768	8718	8703	8714	8635	8692	8779	8718
1908 ...	8752	8762	8750	8719	8674	8711	8722	8678	8550	8602	8579	8617	8680
1909 ...	8464	8577	8588	8714	8613	8629	8650	8587	8612	8231	8440	8455	8547
1910 ...	8520	8523	8613	8558	8518	8597	8569	8526	8496	8516	8565	8551	8546

Quiet days selected locally.

0·360000 c. g. s. +

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1906 ...	8745	8742	8789	8843	8762	8832	8786	8766	8748	8740	8792	8677	8768
1907 ...	8693	8681	8640	8787	8728	8723	8650	8682	8709	8625	8676	8703	8691
1908 ...	8740	8752	8758	8645	8673	8705	8714	8659	8382	8618	8569	8593	8651
1909 ...	8512	8585	8568	8705	8651	8648	8659	8605	8615	8238	8423	8433	8553
1910 ...	8501	8497	8577	8514	8512	8599	8617	8570	8501	8468	8484	8543	8532

TABLE Ia.—*Differences in the absolute values of H derived from all days and from the three sets of quiet days given in Table I.*

Quiet days selected by the Astronomer Royal *less* all days.

Unity = 0·1γ.

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1906 ...	0	+ 44	+ 77	+ 45	+ 5	+ 29	+ 49	+ 52	+ 67	+ 38	+ 21	+ 52	+ 40
1907 ...	+ 37	+309	+ 98	+ 73	+ 59	+ 35	+ 76	+ 56	+ 61	+ 60	+ 91	+ 31	+ 82
1908 ...	+110	+ 77	+181	+ 90	+112	+ 17	+ 24	+ 54	+278	+167	+124	+ 44	+106
1909 ...	+ 85	+ 80	+125	+ 89	+187	− 7	+ 51	+ 67	+345	+156	+ 51	+ 50	+107
1910 ...	+ 82	+ 54	+166	+140	+ 71	+ 83	+ 38	+ 70	+ 55	+150	+101	+ 47	+ 88

Quiet days selected by the International Commission of Terrestrial Magnetism *less* all days.

Unity = 0·1γ.

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1906 ...	+ 62	+ 49	+150	+ 51	+ 16	+ 65	− 3	+ 57	+ 94	+ 81	+ 55	+ 48	+ 60
1907 ...	+ 58	+322	+ 74	+ 77	+ 92	+ 79	+ 72	+ 54	+117	+ 74	+ 96	+ 85	+100
1908 ...	+ 68	+ 89	+195	+111	+ 98	+ 8	+ 37	+115	+284	+139	+142	+ 50	+111
1909 ...	+ 31	+109	+126	+ 95	+151	+ 16	+ 46	+ 59	+359	+158	+ 55	+ 85	+107
1910 ...	+ 88	+ 40	+167	+151	+ 85	+ 48	− 10	+108	+ 67	+153	+103	+ 72	+ 89

* Quiet days selected locally *less* all days.

Unity = 0·1γ.

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1906 ...	− 12	+115	+ 49	+ 48	− 15	+ 5	+ 21	− 7	+ 66	− 4	+ 47	+ 41	+ 29
1907 ...	+ 68	+310	+ 18	+ 82	+ 65	+ 34	+ 4	+ 33	+112	+ 64	+ 80	+ 9	+ 73
1908 ...	+ 56	+ 79	+163	+ 37	+ 97	+ 2	+ 29	+ 96	+116	+155	+132	+ 26	+ 82
1909 ...	+ 79	+117	+106	+ 86	+189	+ 35	+ 55	+ 77	+362	+165	+ 38	+ 63	+114
1910 ...	+ 69	+ 14	+131	+107	+ 79	+ 50	+ 38	+152	+ 72	+105	+ 22	+ 64	+ 75

* These quiet days are selected from the Bombay records, for the Magnetic Survey of India, as suitable for the derivation of the Magnetic diurnal inequalities. The selected days are given at the foot of the tables IX*a* to IX*e* in the tables of Magnetic results.

TABLE II.—*Absolute values of Declination derived from all days and from quiet days (1) selected by the Astronomer Royal and (2) by the International Commission of Terrestrial Magnetism and the differences between the values derived from all days and from these two sets of quiet days.*

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Absolute values: All days.													
1906 ...	1 6 23	1 6 31	1 6 11	1 5 50	1 5 41	1 5 17	1 5 14	1 5 14	1 5 14	1 4 46	1 4 34	1 4 47	1 5 28
1907 ...	1 4 38	1 4 41	1 4 31	1 3 55	1 4 5	1 3 37	1 3 26	1 3 31	1 3 20	1 3 22	1 3 11	1 3 10	1 3 47
1908 ...	1 3 8	1 2 59	1 3 1	1 2 56	1 2 31	1 1 44	1 1 32	1 1 40	1 2 6	1 1 43	1 1 58	1 1 34	1 2 14
1909 ...	1 1 15	1 1 2	1 1 14	1 0 41	1 0 20	0 59 54	0 59 51	0 59 57	1 0 3	1 0 7	0 59 38	0 59 9	1 0 16
1910 ...	0 58 44	0 58 31	0 58 39	0 58 20	0 57 50	0 57 39	0 57 43	0 57 36	0 57 16	0 57 2	0 56 41	0 56 25	0 57 42
Absolute values: Quiet days selected by the Astronomer Royal.													
1906 ...	1 6 26	1 6 22	1 6 7	1 5 47	1 6 0	1 5 14	1 5 5	1 5 13	1 5 2	1 4 43	1 4 40	1 4 40	1 5 27
1907 ...	1 4 36	1 4 1	1 4 18	1 3 47	1 3 50	1 3 34	1 3 19	1 3 23	1 3 17	1 3 19	1 3 9	1 3 5	1 3 38
1908 ...	1 2 58	1 2 59	1 2 43	1 2 53	1 2 35	1 1 50	1 1 34	1 1 28	1 1 47	1 1 29	1 1 47	1 1 26	1 2 7
1909 ...	1 1 10	1 0 47	1 1 7	1 0 45	1 0 4	1 0 2	0 59 53	0 59 58	0 59 44	0 59 50	0 59 24	0 59 11	1 0 10
1910 ...	0 58 43	0 58 18	0 58 31	0 58 10	0 57 44	0 57 21	0 57 31	0 57 32	0 57 15	0 56 51	0 56 28	0 56 19	0 57 34
Absolute values: Quiet days selected by the Internstional Commission of Terrestrial Magnetism.													
1906 ...	1 6 19	1 6 22	1 6 4	1 5 49	1 5 44	1 5 11	1 5 7	1 5 10	1 5 5	1 4 45	1 4 31	1 4 31	1 5 23
1907 ...	1 4 37	1 4 1	1 4 22	1 3 46	1 3 44	1 3 26	1 3 14	1 3 18	1 3 8	1 3 20	1 3 5	1 3 4	1 3 35
1908 ...	1 3 5	1 2 57	1 2 39	1 2 48	1 2 33	1 1 44	1 1 29	1 1 27	1 1 45	1 1 37	1 1 41	1 1 25	1 2 6
1909 ...	1 1 18	1 0 52	1 1 7	1 0 44	1 0 13	1 0 0	0 59 47	0 59 55	0 59 44	0 59 53	0 59 26	0 59 7	1 0 10
1910 ...	0 58 42	0 58 20	0 58 31	0 58 11	0 57 41	0 57 34	0 57 38	0 57 32	0 57 10	0 56 47	0 56 28	0 56 20	0 57 34
Differences: Quiet days selected by the Astronomer Royal *less* all days.													
1906 ...	+ 3	− 9	− 4	− 3	+ 19	− 3	− 9	− 1	− 12	− 3	+ 6	− 7	− 2
1907 ...	− 2	− 40	− 13	− 8	− 15	− 3	− 7	− 8	− 3	− 3	− 2	− 5	− 9
1908 ...	− 10	0	− 18	− 3	+ 4	+ 6	+ 2	− 12	− 19	− 14	− 11	− 8	− 7
1909 ...	− 5	− 15	− 7	+ 4	− 16	+ 8	+ 2	+ 1	− 19	− 17	− 14	+ 2	− 6
1910 ...	− 1	− 13	− 8	− 10	− 6	− 18	− 12	− 4	− 1	− 11	− 13	− 6	− 9
Differences: Quiet days selected by the International Commission of Terrestrial Magnetism *less* all days.													
1906 ...	− 4	− 9	− 7	− 1	+ 3	− 6	− 7	− 4	− 9	− 1	− 3	− 16	− 5
1907 ...	− 1	− 40	− 9	− 9	− 21	− 11	− 12	− 13	− 12	− 2	− 6	− 6	− 12
1908 ...	− 3	− 2	− 22	− 8	+ 2	0	− 3	− 13	− 21	− 6	− 17	− 9	− 8
1909 ...	+ 3	10	− 7	+ 3	− 7	+ 6	− 4	− 2	− 19	− 14	− 12	− 2	− 5
1910 ...	− 2	− 11	− 8	− 9	− 9	− 5	− 5	− 4	− 6	− 15	− 13	− 5	− 8

TABLE III.—*Absolute values of Vertical Force derived from all days and from quiet days selected (1) by the Astronomer Royal and (2) by the International Commission of Terrestrial Magnetism and the differences between the values derived from all days and from these two sets of quiet days.*

Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Absolute values: All days.													
1906 ...	0·157231	0·157332	0·157378	0·157453	0·157570	0·157608	0·157637	0·157792	0·157773	0·157814	0·157899	0·157926	0·157618
1907 ...	7974	8062	8124	8294	8375	8394	8487	8445	8585	8714	8763	9000	8435
1908 ...	8796	8913	9085	9085	9083	9191	9209	9347	9447	9476	9417	9567	9218
1909 ...	9702	9724	9681	9823	160010	160151	160194	160234	160260	160275	160372	160476	160075
1910 ...	160447	160627	160751	160855	0950	0933	0936	1092	1245	1341	1521	1437	1011
Absolute values: Quiet days selected by the Astronomer Royal.													
1906 ...	0·157286	0·157264	0·157437	0·157454	0·157572	0·157631	0·157645	0·157775	0·157779	0·157818	0·157919	0·157888	0·157622
1907 ...	7990	8013	8045	8246	8357	8483	8549	8425	8515	8681	8704	9012	8418
1908 ...	8769	8826	9145	9116	9097	9084	9232	9339	9373	9587	9456	9618	9220
1909 ...	9619	9611	9680	9829	9979	160173	160213	160216	160304	160063	160351	160662	160058
1910 ...	160320	160648	160812	160800	160958	0913	1016	1060	1214	1236	1520	1452	0996
Absolute values: Quiet days selected by the International Commission of Terrestrial Magnetism.													
1906 ...	0·157237	0·157311	0·157428	0·157420	0·157462	0·157392	0·157641	0·157726	0·157699	0·157668	0·157724	0·157865	0·157548
1907 ...	7940	8001	8164	8144	8342	8604	8541	8464	8483	8755	8624	9114	8431
1908 ...	8792	8781	9203	9168	9094	9118	9253	9359	9370	9536	9345	9610	9219
1909 ...	9665	9692	9662	9832	9914	160170	160202	160284	160262	160056	160285	160536	160047
1910 ...	160320	160642	160811	160798	160965	0950	0990	1062	1204	1304	1536	1431	1001
Unity = 0·1γ	**Differences: Quiet days selected by the Astronomer Royal *less* all days.**												
1906 ...	+ 55	− 68	+ 59	+ 1	+ 2	+ 23	+ 8	− 17	+ 6	+ 4	+ 20	− 38	+ 5
1907 ...	+ 16	− 49	− 79	− 48	− 18	+ 89	+ 62	− 20	− 70	− 33	− 59	+ 12	− 16
1908 ...	− 27	− 87	+ 60	+ 31	+ 14	− 107	+ 23	− 8	− 74	+ 111	+ 39	+ 51	+ 2
1909 ...	− 83	− 113	− 1	+ 6	− 31	+ 22	+ 19	− 18	+ 44	− 212	− 21	+ 186	− 17
1910 ...	− 127	+ 21	+ 61	− 55	+ 8	− 20	+ 80	− 32	− 31	− 105	− 1	+ 15	− 15
Unity = 0·1γ	**Differences: Quiet days selected by the International Commission *less* all days.**												
1906 ...	+ 6	− 21	+ 50	− 33	− 108	− 216	+ 4	− 66	− 74	− 146	− 175	− 61	− 70
1907 ...	− 34	− 61	+ 40	− 150	− 33	+ 210	+ 54	+ 19	− 102	+ 41	− 139	+ 114	− 3
1908 ...	− 4	− 132	+ 118	+ 83	+ 11	− 73	+ 44	+ 12	− 77	+ 60	− 72	+ 43	+ 1
1909 ...	− 37	− 32	− 19	+ 9	− 96	+ 19	+ 8	+ 50	+ 2	− 219	− 87	+ 60	− 28
1910 ...	− 127	+ 15	+ 60	− 57	+ 15	+ 17	+ 54	− 30	− 41	− 37	+ 15	− 6	− 10

TABLE IV*a*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1906.*

Unity = 0·1γ = 0·000001 C. G. S.

1906. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 19	− 68	−223	−176	−159	−103	−139	−174	−109	−118	− 87	−107	−115	−131
1 19	− 75	−191	−181	−167	−108	−135	−177	−104	−128	− 95	−106	− 97	−130
2 19	− 64	−156	−148	−148	−101	−139	−154	− 96	−127	− 77	− 96	−112	−118
3 19	− 72	−148	−136	−152	−116	−130	−166	−109	−118	− 79	− 88	−103	−118
4 19	− 67	−120	−151	−154	−151	−132	−157	− 99	−111	− 91	− 70	− 86	−116
5 19	− 62	− 97	−131	−150	−144	−126	−152	−116	−105	− 83	− 52	− 64	−107
6 19	− 49	− 61	−103	−133	−104	−104	−105	−103	−109	− 82	− 30	− 32	− 85
7 19	− 27	− 10	− 50	− 48	− 43	− 38	+ 7	− 75	−107	− 62	+ 8	+ 31	− 34
8 19	+ 8	+ 81	+ 64	+114	+112	+ 69	+173	+ 14	− 6	+ 20	+ 67	+ 81	+ 66
9 19	+ 59	+195	+220	+302	+214	+188	+298	+132	+154	+153	+168	+141	+185
10 19	+ 82	+263	+317	+421	+284	+286	+378	+241	+240	+238	+272	+233	+271
11 19	+145	+296	+402	+448	+298	+320	+411	+270	+305	+308	+315	+243	+313
12 19	+168	+258	+378	+390	+267	+319	+358	+269	+280	+293	+251	+178	+284
13 19	+122	+154	+313	+269	+206	+269	+295	+230	+204	+177	+142	+ 77	+205
14 19	+ 96	+ 59	+213	+152	+126	+201	+167	+140	+137	+ 71	+ 38	+ 29	+119
15 19	+ 70	− 16	+ 94	+ 32	+ 36	+105	+ 29	+ 53	+ 72	+ 4	− 42	+ 8	+ 37
16 19	+ 13	− 50	+ 5	− 49	− 22	+ 1	− 75	− 21	+ 15	− 19	− 84	− 39	− 27
17 19	− 4	− 41	− 47	− 93	− 57	− 78	−129	− 57	− 23	− 40	− 82	− 49	− 58
18 19	− 9	− 39	− 71	−115	− 85	−123	−150	− 68	− 52	− 57	− 78	− 40	− 74
19 19	− 33	− 32	−122	−126	− 94	−130	−140	− 82	− 66	− 77	− 88	− 46	− 86
20 19	− 58	− 49	−143	−137	−105	−132	−136	− 91	− 76	−112	− 96	− 52	− 99
21 19	− 59	− 39	−180	−163	−109	−125	−131	− 85	− 94	− 98	−106	− 62	−104
22 19	− 55	− 59	−183	−168	−101	−123	−141	− 75	− 92	−104	− 83	− 70	−104
23 19	− 64	− 61	−178	−165	−101	−115	−149	− 72	− 87	− 98	− 69	− 75	−103
24 19	− 52	− 60	−175	−156	−101	−120	−133	− 74	− 92	− 86	− 62	− 67	− 98
Range...	243	519	585	616	449	459	588	386	433	420	422	358	444

TABLE IV*b*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1907.*

Unity = 0·1γ = 0·000001 C. G. S.

1907. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 52	−138	−154	−175	−149	−138	−138	−100	−114	−134	−136	−153	−139	−139
0 52	−124	−153	−176	−141	−135	−125	− 90	−112	−137	−111	−166	−132	−133
1 52	−115	−135	−171	−156	−128	−128	−119	−133	−142	−116	−135	−131	−134
2 52	−108	−141	−157	−159	−132	−123	−143	−138	−140	−101	−147	−140	−136
3 52	−110	−125	−141	−154	−136	−129	−151	−133	−136	−105	−153	−119	−133
4 52	− 99	−128	−142	−159	−127	−130	−151	−115	−109	−109	−132	−106	−126
5 52	− 76	−110	−128	−158	− 91	−105	−141	− 99	−114	− 86	−101	− 70	−107
6 52	− 80	− 77	− 74	−118	− 42	− 40	− 83	− 98	−126	− 82	− 30	− 7	− 71
7 52	− 8	− 26	+ 15	+ 16	+ 58	+ 70	− 12	− 35	− 72	− 13	+ 79	+ 81	+ 13
8 52	+ 59	+ 72	+164	+207	+204	+158	+ 76	+101	+ 69	+121	+195	+172	+133
9 52	+139	+189	+308	+362	+316	+279	+173	+213	+238	+224	+293	+229	+247
10 52	+253	+330	+399	+428	+382	+328	+264	+305	+338	+330	+326	+292	+331
11 52	+253	+402	+398	+410	+330	+322	+311	+319	+360	+368	+289	+247	+334
12 52	+210	+346	+321	+337	+256	+264	+300	+297	+320	+293	+217	+188	+279
13 52	+144	+213	+208	+207	+169	+169	+243	+223	+227	+153	+123	+129	+184
14 52	+102	+ 89	+103	+ 87	+ 62	+ 65	+131	+126	+122	+ 28	+ 44	+ 49	+ 84
15 52	+ 50	− 13	+ 2	− 1	− 17	− 32	+ 36	+ 18	+ 17	− 39	+ 10	− 16	+ 1
16 52	− 19	− 81	− 46	− 81	− 79	− 78	− 26	− 56	− 41	− 65	− 47	− 74	− 58
17 52	− 48	− 97	− 70	− 99	−116	−100	− 69	− 87	− 68	− 77	− 59	− 75	− 80
18 52	− 50	− 74	− 87	−126	−132	−125	− 95	−100	− 79	− 69	− 69	− 58	− 89
19 52	− 59	− 82	−114	−137	−123	−122	−105	−103	− 89	− 92	− 99	− 70	−100
20 52	− 64	−101	−137	−138	−129	−110	− 95	−101	−108	−113	−108	− 92	−108
21 52	− 89	−100	−148	−145	−130	−112	− 82	− 96	−112	−118	−114	− 95	−112
22 52	− 66	− 92	−153	−138	−133	− 93	− 82	− 90	−103	−103	− 97	− 91	−103
23 52	− 40	− 63	−159	−124	−125	− 77	− 90	− 92	− 95	−103	− 87	− 82	− 95
Range...	391	556	575	587	520	466	462	457	502	504	492	432	473

TABLE IVc.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1908.*

Unity = 0·1γ = 0·000001 C. G. S.

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 52	−124	−151	148	−174	−163	−175	−149	−153	−122	−167	−101	− 84	−143
0 52	−114	−128	−113	−161	−152	−176	−142	−151	−121	−149	− 95	− 81	−132
1 52	−116	−132	−131	−173	−126	−157	−142	−148	−112	−153	− 93	− 73	−130
2 52	−113	−127	−137	−161	−131	−154	−145	−150	−133	−147	− 84	− 71	−129
3 52	− 98	−124	−139	−137	−103	−153	−150	−145	−124	−108	− 79	− 56	−118
4 52	− 82	−117	−136	−138	−103	−143	−144	−156	−114	−118	− 65	− 42	−113
5 52	− 58	−101	−121	−141	− 74	−119	−125	−147	−131	−109	− 49	− 32	−101
6 52	− 26	− 48	− 70	−101	+ 2	− 66	− 49	− 95	−158	− 78	+ 2	− 17	− 59
7 52	+ 26	+ 42	+ 11	+ 28	+125	+ 49	+ 44	− 13	−124	+ 10	+ 60	+ 23	+ 23
8 52	+101	+144	+148	+219	+261	+156	+160	+134	+ 48	+165	+128	+ 70	+144
9 52	+175	+246	+281	+379	+366	+274	+287	+262	+242	+300	+199	+167	+265
10 52	+244	+331	+376	+415	+414	+350	+362	+329	+365	+390	+243	+224	+337
11 52	+264	+362	+381	+366	+384	+351	+369	+323	+380	+395	+216	+196	+332
12 52	+228	+316	+322	+303	+304	+314	+341	+280	+333	+291	+143	+152	+277
13 52	+170	+216	+218	+158	+199	+219	+231	+197	+212	+151	+ 45	+ 96	+176
14 52	+ 97	+ 96	+ 93	+ 52	+ 60	+119	+ 96	+106	+106	+ 51	− 26	+ 40	+ 74
15 52	+ 16	− 24	+ 4	+ 2	− 75	+ 17	− 30	+ 33	+ 9	− 17	− 49	− 13	− 11
16 52	− 20	− 88	− 51	− 79	−173	− 78	−112	− 36	− 40	− 60	− 64	− 52	− 71
17 52	− 31	− 97	− 87	−111	−176	−136	−138	− 74	− 51	− 65	− 47	− 64	− 90
18 52	− 61	− 85	−124	−130	−172	−131	−130	− 88	− 68	− 89	− 48	− 84	−101
19 52	− 98	−132	−147	−119	−178	−119	−118	−101	− 98	−111	− 49	− 81	−113
20 52	−136	−162	−148	−113	−180	−102	−120	− 94	−106	−129	− 70	− 75	−120
21 52	−128	−142	−148	−114	−162	− 86	−113	− 96	−111	−159	− 71	− 80	−117
22 52	−127	−123	−142	−105	−160	− 94	−104	− 67	−100	−131	− 65	− 71	−107
23 52	− 93	− 91	−135	−107	−140	− 89	−104	− 60	− 92	− 99	− 61	− 63	− 94
Range...	400	524	529	589	594	527	519	485	538	562	344	308	480

TABLE IVd.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1909.*

Unity = 0·1γ = 0·000001 C. G. S.

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 52	−129	−106	−174	−188	−136	−128	−173	− 99	−130	− 103	− 98	−143	−134
0 52	− 119	− 104	− 154	− 178	− 136	− 125	− 166	− 105	− 127	− 92	− 133	− 140	− 132
1 52	− 107	− 79	− 162	− 169	− 133	− 120	− 169	− 68	− 120	− 87	− 139	− 118	− 123
2 52	− 100	− 92	− 145	− 165	− 130	− 112	− 125	− 77	− 110	− 75	− 99	− 120	− 112
3 52	− 86	− 77	− 106	− 162	− 131	− 105	− 142	− 87	− 104	− 77	− 109	− 109	− 108
4 52	− 72	− 78	− 92	− 165	− 131	− 107	− 154	− 87	− 91	− 79	− 86	− 95	− 103
5 52	− 67	− 55	− 84	− 158	− 105	− 74	− 127	− 72	− 87	− 74	− 69	− 69	− 87
6 52	− 40	− 22	− 61	− 111	− 41	− 39	− 93	− 48	− 116	− 56	− 11	− 9	− 54
7 52	+ 26	+ 45	+ 30	+ 18	+ 35	+ 19	− 22	+ 16	− 102	+ 26	+ 100	+ 75	+ 22
8 52	+ 99	+128	+126	+213	+140	+ 77	+ 87	+138	+ 9	+130	+207	+130	+124
9 52	+163	+186	+245	+390	+238	+207	+218	+233	+159	+257	+284	+181	+230
10 52	+210	+239	+372	+470	+304	+274	+298	+294	+224	+331	+319	+227	+297
11 52	+185	+229	+375	+424	+315	+286	+327	+286	+274	+334	+270	+225	+295
12 52	+126	+164	+292	+338	+292	+236	+327	+253	+271	+237	+195	+174	+242
13 52	+ 86	+104	+166	+223	+219	+186	+274	+163	+232	+125	+116	+ 97	+166
14 52	+ 42	+ 18	+ 84	+ 95	+104	+ 83	+165	+ 57	+135	+ 59	+ 56	+ 35	+ 78
15 52	+ 15	− 37	+ 2	− 2	+ 18	− 3	+ 51	− 38	+ 38	+ 5	− 16	− 1	+ 3
16 52	− 25	− 59	− 71	− 73	− 59	− 53	− 33	− 92	− 23	− 60	− 66	− 44	− 55
17 52	− 33	− 70	−104	−116	−106	− 77	− 96	−112	− 38	− 94	−109	− 54	− 84
18 52	− 32	− 67	−100	−134	−131	− 88	−121	−130	− 58	−100	−129	− 55	− 95
19 52	− 52	− 71	−120	−152	−118	− 97	−112	−123	− 68	−139	−141	− 59	−104
20 52	− 62	− 77	−121	−146	−109	−103	−104	− 98	− 70	−164	−128	− 61	−104
21 52	− 57	− 76	−111	−143	−111	− 90	− 83	−113	− 72	−161	−126	− 56	−100
22 52	− 23	− 69	−112	−140	−102	− 80	− 76	−106	− 57	−138	− 89	− 55	− 87
23 52	− 26	− 65	−123	−138	−108	− 68	− 72	− 98	− 58	−124	− 94	− 51	− 85
Range...	339	345	549	658	451	414	500	426	404	498	460	370	431

TABLE IVe.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1910.*

Unity = 0·1γ = 0·000001 C. G. S.

1910. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 52	- 76	-101	-132	-146	-106	-102	-118	-110	- 46	-121	-127	-103	-107
0 52	- 79	- 70	- 93	-130	-133	-106	-121	- 94	- 54	-119	-133	- 80	-101
1 52	- 83	- 63	-109	-126	-119	-126	-117	-104	- 54	-128	-107	- 62	-100
2 52	- 91	- 58	-116	-136	- 98	-135	-122	-116	- 42	-114	- 92	- 64	- 99
3 52	- 84	- 59	-103	-134	-104	-125	-120	- 95	- 26	- 97	- 86	- 63	- 91
4 52	- 48	- 54	-101	-117	- 94	-120	-121	- 87	- 34	- 87	-105	- 62	- 86
5 52	- 43	- 31	- 86	-124	- 98	- 99	-107	- 83	- 40	- 78	- 72	- 43	- 75
6 52	- 13	+ 23	- 53	-122	- 64	- 46	- 53	- 58	- 62	- 82	- 14	- 28	- 48
7 52	+ 22	+ 99	+ 51	- 41	+ 19	+ 65	+ 18	+ 38	- 58	- 22	+ 80	+ 33	+ 25
8 52	+ 67	+171	+179	+114	+121	+141	+117	+115	+ 13	+106	+167	+ 83	+116
9 52	+118	+176	+290	+263	+194	+243	+209	+164	+ 64	+201	+238	+151	+193
10 52	+195	+194	+331	+346	+221	+284	+242	+239	+105	+296	+319	+190	+247
11 52	+213	+204	+293	+335	+221	+283	+226	+252	+135	+314	+283	+170	+244
12 52	+189	+147	+230	+255	+164	+245	+209	+227	+128	+230	+192	+148	+197
13 52	+104	+ 75	+157	+146	+126	+174	+149	+142	+ 97	+110	+110	+ 84	+121
14 52	+ 54	- 23	+ 69	+158	+ 53	+ 76	+ 73	+ 66	+ 70	+ 22	+ 51	+ 30	+ 58
15 52	- 8	- 84	+ 1	+ 4	+ 18	- 16	+ 7	- 6	+ 36	- 6	+ 27	- 11	- 3
16 52	- 41	- 91	- 52	- 46	- 4	- 61	- 45	- 62	- 5	- 28	- 19	- 27	- 40
17 52	- 61	- 72	- 96	- 73	- 18	- 98	- 72	- 92	- 53	- 41	- 52	- 68	- 66
18 52	- 67	- 69	-123	- 90	- 44	-100	- 70	- 94	- 52	- 69	- 93	- 61	- 78
19 52	- 68	- 74	-137	- 98	- 74	-100	- 66	- 84	- 41	- 80	-113	- 62	- 83
20 52	- 75	- 88	-149	-101	- 67	- 97	- 55	- 64	- 52	- 77	-141	- 66	- 86
21 52	- 69	- 81	-143	- 90	- 69	- 95	- 53	- 71	- 26	- 83	-143	- 75	- 83
22 52	- 66	- 66	-118	- 85	- 72	- 91	- 48	- 53	- 23	- 69	-166	- 44	- 75
23 52	- 58	- 82	-108	- 77	- 58	- 89	- 37	- 42	- 15	- 67	-145	- 42	- 68
Range ...	304	305	480	492	354	419	364	368	197	442	485	293	354

TABLE IV*f*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Horizontal Force for summer months (April to September), winter months (January to March and October to December), and the whole year for each of the years 1906—1910.*

Unity = 0·1γ = 0·000001 C. G. S.

Bombay Civil Hours.	1906.			1907.			1908.			1909.			1910.		
	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.
0 ...	−134	**−129**	**−131**	−129	**−149**	**−139**	**−156**	**−129**	**−143**	**−142**	**−125**	**−134**	−105	**−110**	**−107**
1 ...	**−136**	−124	−130	−123	−144	−133	−150	−113	−132	−139	−124	−132	−106	− 96	−101
2 ...	−127	−109	−118	−134	−134	−134	−143	−116	−130	−130	−115	−123	**−108**	− 92	−100
3 ...	−132	−104	−118	−139	−132	−136	−146	−113	−129	−120	−105	−112	−108	− 89	− 99
4 ...	−134	− 97	−116	**−140**	−125	−133	−135	−101	−118	−122	− 94	−108	−101	− 82	− 91
5 ...	−132	− 81	−107	−132	−119	−126	−133	− 93	−113	−122	− 84	−103	− 95	− 76	− 86
6 ...	−110	− 59	− 85	−118	− 95	−107	−123	− 78	−101	−104	− 70	− 87	− 92	− 59	− 75
7 ...	− 51	− 18	− 34	− 84	− 58	− 71	− 78	− 39	− 59	− 75	− 33	− 54	− 67	− 28	− 48
8 ...	+ 79	+ 53	+ 66	+ 4	+ 21	+ 13	+ 18	+ 29	+ 23	− 6	+ 50	+ 22	+ 7	+ 44	+ 25
9 ...	+215	+156	+185	+136	+130	+133	+163	+126	+144	+111	+137	+124	+103	+129	+116
10 ...	+308	+234	+271	+263	+230	+247	+302	+228	+265	+241	+219	+230	+189	+196	+193
11 ...	**+342**	**+285**	**+313**	+341	+322	+331	**+372**	+301	**+337**	+311	**+283**	**+297**	+239	**+254**	**+247**
12 ...	+314	+254	+284	**+342**	**+326**	**+334**	+362	**+302**	+332	**+320**	+270	+295	**+242**	+246	+244
13 ...	+245	+164	+205	+296	+262	+279	+312	+242	+277	+286	+198	+242	+205	+189	+197
14 ...	+154	+ 84	+119	+206	+162	+184	+203	+149	+176	+216	+116	+166	+139	+103	+121
15 ...	+ 54	+ 20	+ 37	+ 99	+ 69	+ 84	+ 90	+ 58	+ 74	+106	+ 49	+ 78	+ 83	+ 34	+ 58
16 ...	− 25	− 29	− 27	+ 3	− 1	+ 1	− 7	− 14	− 11	+ 11	− 5	+ 3	+ 7	− 13	− 3
17 ...	− 73	− 44	− 58	− 60	− 55	− 58	− 86	− 56	− 71	− 55	− 54	− 55	− 37	− 43	− 40
18 ...	− 99	− 49	− 74	− 90	− 71	− 80	−114	− 65	− 90	− 91	− 77	− 84	− 68	− 65	− 66
19 ...	−106	− 66	− 86	−109	− 68	− 89	−120	− 82	−101	−110	− 80	− 95	− 75	− 80	− 78
20 ...	−113	− 85	− 99	−113	− 86	−100	−122	−103	−113	−112	− 97	−104	− 77	− 89	− 83
21 ...	−118	− 91	−104	−113	−102	−108	−119	−120	−120	−105	−102	−104	− 73	− 99	− 86
22 ...	−117	− 92	−104	−113	−111	−112	−114	−121	−117	−102	− 98	−100	− 67	− 99	− 83
23 ...	−115	− 91	−103	−106	−100	−103	−105	−110	−107	− 93	− 81	− 87	− 62	− 88	− 75
24 ...	−113	− 84	− 98	−100	− 89	− 95	− 99	− 90	− 94	− 90	− 80	− 85	− 53	− 84	− 68
Range ...	478	414	444	482	475	473	528	431	480	462	408	431	350	364	354

TABLE Va.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1906.*

Unity = 0·1γ = 0·000001 C. G. S.

1906. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
5 19	- 87	-108	-164	**-166**	-117	**-148**	**-149**	**-116**	- 98	-144	- 90	- 69	**-121**
6 19	- 63	- 70	-140	-148	- 90	-110	-108	- 99	-108	**-154**	- 59	- 39	- 99
7 19	- 32	- 2	- 78	- 76	- 42	- 29	- 16	- 59	**-113**	-133	+ 13	+ 3	- 47
8 19	+ 29	+ 99	+ 61	+ 96	+ 73	+ 53	+112	+ 12	- 25	+ 7	+ 92	+ 54	+ 55
9 19	+118	+181	+244	+306	+210	+176	+243	+123	+114	+180	+175	+119	+182
10 19	+199	+252	+371	+431	+317	+264	+343	+232	+184	+322	+261	**+202**	+281
11 19	**+240**	**+269**	**+466**	**+455**	**+343**	**+301**	**+373**	**+247**	+247	**+419**	**+284**	+195	**+320**
12 19	+213	+238	+437	+390	+291	+291	+330	+245	**+257**	+417	+218	+158	+290
13 19	+151	+131	+366	+255	+214	+269	+279	+212	+197	+315	+148	+ 83	+218
14 19	+ 95	+ 37	+253	+134	+119	+208	+152	+121	+139	+168	+ 48	+ 24	+125
15 19	+ 40	- 21	+122	+ 25	+ 26	+ 95	+ 21	+ 39	+ 85	+ 66	- 28	- 9	+ 38
16 19	- 9	- 57	+ 18	- 64	- 36	+ 3	- 64	- 28	+ 28	- 7	- 61	- 37	- 26
17 19	- 48	- 50	- 55	- 99	- 70	- 58	-110	- 60	- 12	- 49	- 73	- 55	- 52
18 19	- 45	- 66	- 99	-106	- 96	-105	-138	- 70	- 45	- 90	- 74	- 44	- 81
19 19	- 62	- 66	-140	-122	-108	-113	-137	- 79	- 62	-113	- 81	- 51	- 94
20 19	- 47	- 89	-171	-136	**-119**	-126	-132	- 88	- 68	-132	- 95	- 47	-104
21 19	- 89	**-111**	-194	-157	-119	-127	-129	- 86	- 85	-128	-101	- 72	-116
22 19	- 86	- 84	**-196**	-163	-116	-125	-133	- 77	- 87	-141	**-108**	**- 83**	-117
23 19	- 66	- 84	-196	-157	-115	-126	-126	- 80	- 89	-140	- 85	- 75	-112
0 19	- 66	- 91	-190	-145	-117	-122	-124	- 81	-101	-138	- 68	- 68	-109
1 19	- 73	- 84	-187	-141	-110	-125	-123	- 81	- 97	-136	- 80	- 56	-108
2 19	- 71	- 85	-185	-141	-115	-135	-123	- 77	-106	-135	- 83	- 54	-109
3 19	- 94	- 95	-169	-142	-112	-121	-124	- 85	- 84	-133	- 85	- 57	-108
4 19	- 93	- 75	-173	-142	-113	-114	-127	- 82	- 81	-129	- 83	- 51	-105
5 19	**- 95**	- 54	-159	-134	-117	-111	-121	- 88	- 84	-124	- 69	- 18	- 98
Range ...	335	380	662	621	462	449	522	363	370	573	392	285	441

TABLE Vb.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1907.*

Unity = 0·1γ = 0·000001 C. G. S.

1907. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 52	- 86	**-141**	**-153**	**-180**	-122	**-150**	**-184**	**-136**	**-137**	-118	**-103**	- 89	**-133**
5 52	- 76	-123	-144	-172	- 91	-117	-171	-120	-124	-118	- 91	- 60	-117
6 52	- 57	- 90	- 97	-128	- 48	- 30	- 97	-103	-132	**-136**	- 49	+ 14	- 79
7 52	- 10	- 39	+ 9	+ 8	+ 52	+103	- 19	- 38	- 60	- 70	+ 35	+ 98	+ 6
8 52	+ 71	+ 59	+180	+194	+199	+222	+ 81	+114	+ 92	+ 52	+125	+168	+130
9 52	+163	+176	+325	+368	+317	+332	+187	+218	+254	+168	+217	+223	+246
10 52	+277	+317	**+405**	**+440**	**+375**	**+371**	+278	+309	+325	+282	**+253**	**+273**	+325
11 52	**+289**	**+389**	+391	+426	+336	+356	**+318**	**+335**	**+333**	**+329**	+223	+242	**+331**
12 52	+222	+333	+315	+326	+255	+269	+303	+322	+290	+271	+161	+174	+270
13 52	+142	+200	+187	+188	+167	+155	+278	+246	+193	+157	+ 78	+101	+174
14 52	+ 73	+ 76	+ 66	+ 61	+ 58	+ 17	+171	+140	+ 99	+ 60	+ 20	+ 35	+ 73
15 52	- 6	- 25	- 43	- 25	- 17	- 78	+ 65	+ 4	+ 18	+ 17	- 14	- 19	- 10
16 52	- 75	- 94	- 72	- 99	- 77	-117	- 23	- 82	- 34	- 8	- 51	- 65	- 66
17 52	- 88	-110	- 71	-104	-116	-131	- 81	-106	- 63	- 33	- 59	- 77	- 87
18 52	- 94	- 87	- 86	-119	-136	-149	-109	-116	- 76	- 51	- 65	- 94	- 98
19 52	-115	- 95	-104	-131	-129	-142	-116	-120	-101	- 84	- 84	-112	-111
20 52	**-134**	-114	-127	-133	-134	-135	-128	-118	-115	106	- 94	**-138**	-123
21 52	-112	-113	-141	-140	-137	-132	-123	-113	-121	-111	- 98	-132	-123
22 52	- 97	-105	-147	-137	**-141**	-120	-104	-104	-115	-100	- 82	-122	-114
23 52	- 73	- 76	-144	-123	-134	-111	- 97	-106	-108	- 91	- 79	-112	-104
0 52	- 61	-110	-148	-129	-130	-109	-103	-110	-106	- 92	- 75	- 94	-106
1 52	- 62	- 98	-148	-140	-121	-110	-118	-108	-120	- 82	- 69	- 81	-105
2 52	- 54	- 80	-135	-136	-118	-101	-117	-111	- 99	- 83	- 67	- 70	- 98
3 52	- 51	- 80	-128	-134	-119	-107	-123	-115	-108	- 74	- 65	- 73	- 98
4 52	- 61	- 81	-128	-135	-105	-111	-128	- 99	-103	- 81	- 48	- 71	- 96
Range ...	423	530	558	620	516	521	502	471	470	465	356	411	464

TABLE Vc.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1908.*

Unity = 0·1γ = 0·000001 C. G. S.

1908. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 52	− 87	−143	−136	−145	−127	−149	−168	−132	−119	−161	− 82	− 47	−125
5 52	− 72	−119	−119	−148	−104	−137	−149	−122	−137	−147	− 65	− 37	−113
6 52	− 52	− 67	− 76	− 99	− 35	− 75	− 77	− 74	−164	− 98	− 18	− 22	− 71
7 52	− 15	+ 39	+ 17	+ 60	+ 78	+ 23	+ 33	− 5	−130	+ 22	+ 52	+ 18	+ 16
8 52	+ 60	+161	+163	+259	+191	+145	+177	+152	+ 43	+189	+120	+ 65	+144
9 52	+109	+ 83	+302	+410	+298	+253	+326	+288	+237	+314	+196	+162	+248
10 52	+169	+328	+399	+462	+350	+329	+390	+358	+360	+388	+234	+218	+332
11 52	+173	+354	+385	+412	+318	+369	+387	+333	+374	+374	+207	+191	+323
12 52	+134	+317	+320	+304	+270	+362	+339	+291	+327	+253	+131	+147	+266
13 52	+110	+212	+192	+156	+172	+275	+227	+219	+206	+118	+ 60	+ 91	+170
14 52	+ 65	+ 89	+ 72	+ 39	+ 82	+162	+ 85	+105	+100	+ 46	+ 16	+ 35	+ 75
15 52	+ 14	− 19	− 10	− 9	− 9	+ 40	− 31	− 2	+ 3	− 11	− 16	− 18	− 6
16 52	− 15	− 77	− 59	− 62	− 81	− 64	−113	− 91	− 45	− 68	− 36	− 57	− 64
17 52	− 44	− 78	− 87	−121	−121	−142	−158	−124	− 57	− 74	− 31	−115	− 96
18 52	− 51	− 87	−128	−141	−144	−161	−151	−119	− 74	− 91	− 44	− 89	−107
19 52	− 67	−108	−154	−152	−171	−141	−140	−142	−104	−117	− 57	− 86	−120
20 52	− 73	−130	−169	−158	−173	−137	−141	−134	−112	−134	− 83	− 80	−127
21 52	− 72	−134	−152	−154	−163	−145	−140	−140	−117	−148	− 89	− 86	−128
22 52	− 68	−137	−136	−155	−150	−149	−128	−120	−106	−133	− 89	− 76	−121
23 52	− 62	−122	−135	−158	−124	−180	−125	−105	− 97	−122	− 83	− 68	−115
0 52	− 54	−101	−134	−157	−112	−131	−122	−104	−106	−113	− 84	− 57	−106
1 52	− 56	− 98	−139	−157	− 97	−132	−116	− 99	−103	−116	− 89	− 55	−105
2 52	− 51	− 96	−162	−149	− 96	−134	−116	−115	−101	−112	− 86	− 43	−105
3 52	− 37	− 94	−156	−138	− 79	−135	−117	−118	− 94	− 94	− 76	− 41	− 98
4 52	− 10	− 83	−122	−136	− 79	122	−108	−122	− 91	− 93	− 55	− 32	− 88
Range ...	260	497	568	620	523	549	558	500	538	549	323	333	460

TABLE Vd.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1909.*

Unity = 0·1γ = 0·000001 C. G. S.

1909. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 52	− 54	−129	−106	−171	−129	−135	−142	− 92	−110	− 89	− 88	− 83	−111
5 52	− 40	−110	−105	−165	−110	−104	−119	− 77	−105	− 83	− 78	− 55	− 96
6 52	− 30	− 80	− 82	−117	− 67	− 63	− 73	− 63	−141	− 63	− 15	+ 5	− 66
7 52	+ 13	+ 4	− 17	+ 11	− 8	− 8	− 5	+ 9	−138	+ 4	+110	+ 75	+ 4
8 52	+ 78	+122	+106	+207	+ 99	+ 54	+ 87	+129	− 27	+113	+227	+106	+108
9 52	+139	+223	+231	+384	+223	+170	+205	+217	+135	+236	+302	+149	+218
10 52	+231	+284	+352	+464	+297	+237	+306	+253	+223	+305	+335	+201	+291
11 52	+218	+282	+343	+418	+316	+260	+325	+245	+268	+305	+290	+183	+288
12 52	+149	+224	+263	+331	+268	+234	+301	+182	+269	+263	+209	+122	+235
13 52	+ 62	+167	+143	+216	+179	+174	+253	+109	+221	+109	+124	+ 40	+150
14 52	+ 3	+ 80	+ 45	− 3	+105	+ 67	+163	+ 31	+124	+ 37	+ 43	− 21	+ 56
15 52	− 37	− 13	− 10	− 9	+ 33	− 8	+ 38	− 38	+ 31	− 6	− 30	− 35	− 7
16 52	− 67	− 68	− 46	− 79	− 56	− 69	− 49	− 74	− 30	− 60	− 84	− 53	− 61
17 52	− 79	− 99	− 66	−122	− 88	− 91	−110	− 78	− 45	− 74	−126	− 51	− 86
18 52	− 69	−102	− 75	−140	−109	− 92	−137	− 92	− 58	− 73	−138	− 51	− 95
19 52	− 70	−103	−108	−159	−108	− 96	−137	−102	− 69	− 96	−146	− 62	−105
20 52	− 75	−101	−133	−152	−115	−104	−132	− 91	− 77	−114	−135	− 69	−107
21 52	− 69	− 95	−127	−150	−125	− 90	−131	− 85	− 81	−119	−146	− 68	−107
22 52	− 66	− 87	−129	−147	−115	− 79	−125	− 70	− 72	− 84	−120	− 68	− 97
23 52	− 60	− 79	−125	−144	−109	− 60	−124	− 65	− 72	− 87	−112	− 63	− 92
0 52	− 63	− 79	− 94	−139	−105	− 59	−112	− 69	− 70	−101	−117	− 59	− 89
1 52	− 53	− 90	−106	−126	−113	− 60	−109	− 70	− 68	−102	−121	− 56	− 89
2 52	− 49	− 96	− 97	−123	−101	− 63	− 97	− 70	− 73	− 92	−107	− 47	− 85
3 52	− 39	− 78	− 87	−116	− 90	− 55	− 97	− 61	− 64	− 87	− 86	− 64	− 77
4 52	− 31	− 80	− 57	−113	− 76	− 48	− 99	− 57	− 59	− 78	− 75	− 44	− 68
Range ...	310	413	481	635	445	395	467	355	410	424	481	284	402

TABLE V*e*.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1910.*

Unity = 0·1γ = 0·000001 C. G. S.

1910. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 52	− 66	− 67	− 102	− 138	− 108	**− 123**	**− 98**	− 97	− 43	− 98	− 107	**− 79**	− 94
5 52	− 59	− 53	− 87	**− 142**	**− 112**	− 94	− 80	− 96	− 49	− 87	− 74	− 64	− 83
6 52	− 26	− 6	− 54	− 133	− 78	− 23	− 41	− 66	− 70	− 81	− 16	− 41	− 53
7 52	+ 17	+ 72	+ 50	− 51	+ 4	+ 67	+ 27	0	**− 72**	− 14	+ 78	+ 2	+ 15
8 52	+ 50	+ 131	+ 178	+ 98	+ 107	+ 143	+ 110	+ 66	+ 5	+ 96	+ 165	+ 59	+ 101
9 52	+ 106	+ 140	+ 289	+ 260	+ 180	+ 217	+ 200	+ 130	+ 84	+ 197	+ 236	+ 110	+ 179
10 52	+ 188	+ 161	**+ 331**	**+ 347**	**+ 207**	**+ 257**	**+ 256**	+ 215	+ 103	+ 279	**+ 317**	**+ 160**	**+ 235**
11 52	**+ 208**	**+ 169**	+ 292	+ 337	+ 207	+ 223	+ 243	+ 250	**+ 142**	**+ 288**	+ 281	+ 149	+ 232
12 52	+ 183	+ 132	+ 229	+ 269	+ 150	+ 186	+ 176	**+ 256**	+ 141	+ 217	+ 190	+ 112	+ 187
13 52	+ 94	+ 72	+ 156	+ 152	+ 112	+ 116	+ 89	+ 167	+ 93	+ 120	+ 108	+ 58	+ 111
14 52	+ 36	+ 24	+ 68	+ 64	+ 38	+ 33	+ 27	+ 73	+ 58	+ 21	+ 49	+ 27	+ 43
15 52	− 33	− 39	0	− 3	+ 4	− 40	− 27	+ 2	+ 24	− 42	+ 25	+ 2	− 11
16 52	− 59	− 56	− 53	− 55	− 19	− 72	− 61	− 52	− 14	− 61	− 21	− 25	− 46
17 52	− 59	− 60	− 97	− 79	− 33	− 95	− 88	− 94	− 59	− 69	− 54	− 51	− 70
18 52	− 60	− 62	− 124	− 98	− 58	− 103	− 87	− 95	− 61	− 82	− 95	− 61	− 82
19 52	− 69	− 59	− 138	− 115	− 89	− 101	− 97	**− 99**	− 54	− 87	− 115	− 55	− 90
20 52	− 78	− 71	**− 150**	− 119	− 81	− 97	− 96	− 88	− 62	− 96	− 143	− 62	**− 95**
21 52	**− 80**	− 65	− 144	− 106	− 84	− 96	− 92	− 98	− 39	**− 108**	− 144	− 70	− 94
22 52	− 80	− 66	− 119	− 103	− 87	− 83	− 83	− 83	− 37	− 98	**− 167**	− 48	− 88
23 52	− 66	− 60	− 109	− 94	− 72	− 75	− 66	− 70	− 30	− 65	− 147	− 42	− 75
0 52	− 62	− 59	− 106	− 83	− 64	− 57	− 61	− 67	− 23	− 74	− 123	− 38	− 68
1 52	− 51	**− 73**	− 113	− 80	− 61	− 67	− 59	− 59	− 20	− 64	− 86	− 31	− 64
2 52	− 41	− 56	− 106	− 85	− 58	− 70	− 61	− 52	− 18	− 56	− 91	− 26	− 60
3 52	− 20	− 53	− 92	− 80	− 40	− 70	− 53	− 58	− 13	− 57	− 78	− 23	− 53
4 52	− 13	− 51	− 98	− 62	− 22	− 76	− 54	− 66	− 20	− 55	− 77	− 2	− 50
Range ...	288	242	481	489	319	380	354	355	214	396	484	239	330

TABLE V*f*.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Horizontal Force for summer months (April to September), winter months (January to March and October to December), and the whole year, for each of the years 1906 to 1910.*

Unity = 0·1γ = 0·000001 C. G. S.

Bombay Civil Hours.	1906.			1907.			1908.			1909.			1910.		
	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.
5 ...	−132	−110	−121	−151	−115	−133	−140	−109	−125	−130	− 91	−111	−101	− 86	− 94
6 ...	−110	− 87	− 99	−132	−102	−117	−133	− 93	−113	−113	− 78	− 96	− 95	− 71	− 83
7 ...	− 56	− 38	− 47	− 90	− 69	− 79	− 87	− 55	− 71	− 87	− 44	− 66	− 68	− 37	− 53
8 ...	+ 53	+ 57	+ 55	+ 8	+ 4	+ 6	+ 10	+ 22	+ 16	− 23	+ 31	+ 4	− 4	+ 34	+ 15
9 ...	+195	+169	+182	+150	+109	+130	+161	+126	+144	+ 91	+125	+108	+ 88	+113	+101
10 ...	+295	+268	+281	+279	+212	+246	+302	+194	+248	+222	+213	+218	+178	+180	+179
11 ...	+328	+312	+320	+350	+301	+325	+375	+289	+332	+297	+285	+291	+231	+239	+235
12 ...	+301	+280	+290	+351	+310	+331	+365	+281	+323	+305	+270	+288	+234	+231	+232
13 ...	+238	+199	+218	+294	+246	+270	+315	+217	+266	+264	+205	+235	+196	+177	+187
14 ...	+145	+104	+125	+204	+144	+174	+209	+130	+170	+192	+107	+150	+121	+101	+111
15 ...	+ 48	+ 28	+ 38	+ 91	+ 55	+ 73	+ 95	+ 54	+ 75	+ 81	+ 31	+ 56	+ 49	+ 37	+ 43
16 ...	− 27	− 25	− 26	− 5	− 15	− 10	− 1	− 10	− 6	+ 8	− 22	− 7	− 7	− 14	− 11
17 ...	− 68	− 55	− 62	− 72	− 61	− 66	− 76	− 52	− 64	− 59	− 63	− 61	− 45	− 46	− 46
18 ...	− 93	− 70	− 81	−100	− 73	− 87	−120	− 71	− 96	− 89	− 82	− 86	− 75	− 65	− 70
19 ...	−103	− 85	− 94	−117	− 79	98	−132	− 82	−107	−105	− 85	− 95	− 84	− 81	− 82
20 ...	−111	− 97	−104	−123	− 99	−111	−142	− 98	−120	−112	− 97	−105	− 92	− 87	− 90
21 ...	−117	−116	−116	−127	−119	−123	−142	−111	−127	−112	−103	−107	− 90	−100	− 95
22 ...	−117	−116	−117	−128	−118	−123	−143	−113	−128	−110	−104	−107	− 86	−102	− 94
23 ...	−115	−108	−112	−120	−109	−114	−135	−106	−121	−101	− 92	− 97	− 79	− 96	− 88
0 ...	−115	−103	−109	−113	− 96	−104	−131	− 99	−115	− 96	− 88	− 92	− 68	− 81	− 75
1 ...	−113	−103	−108	−114	− 97	−106	−122	− 90	−106	− 92	− 85	− 89	− 59	− 77	− 68
2 ...	−116	−102	−109	−119	− 90	−105	−117	− 92	−105	− 91	− 88	− 89	− 58	− 70	− 64
3 ...	−111	−105	−108	−114	− 81	− 98	−118	− 92	−105	− 88	− 81	− 85	− 57	− 63	− 60
4 ...	−110	−101	−105	−118	− 78	− 98	−113	− 83	− 98	− 80	− 73	− 77	− 52	− 54	− 53
5 ...	−109	− 86	− 98	−113	− 78	− 96	−110	− 66	− 88	− 75	− 61	− 68	− 50	− 49	− 50
Range ...	460	428	441	502	429	464	518	402	460	435	389	402	335	341	330

TABLE VIa.—*Showing for the quiet days* locally selected, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1906.*

Unity = 0·1γ = 0·000001 C. G. S.

1906. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 19	**-76**	-109	-152	**-197**	-121	-133	**-152**	-81	-116	-71	-76	**-111**	**-116**
1 19	-74	-105	-164	-171	-125	-140	-116	-80	**-126**	-87	-71	-101	-113
2 19	-70	-104	-178	-161	-123	-133	-139	-77	-123	-78	-52	-88	-110
3 19	-71	-109	-168	-159	-142	**-141**	-144	-81	-121	-79	-67	-82	-114
4 19	-59	-84	-159	-171	**-152**	-131	-146	-79	-112	-95	-66	-84	-111
5 19	-56	-67	-149	-164	-140	-125	-149	-88	-107	-90	-56	-67	-105
6 19	-42	-33	-112	-147	-96	-100	-101	-66	-110	**-115**	-29	-36	-82
7 19	-16	+17	-41	-72	-32	-29	+7	-49	-122	-111	+9	+11	-36
8 19	+32	+102	+87	+99	+90	+78	+138	+16	-22	-15	+62	+57	+60
9 19	+70	+195	+252	+303	+215	+201	+284	+109	+135	+131	+148	+126	+181
10 19	+122	+261	+373	+417	+315	+302	+388	+174	+235	+262	+259	**+207**	+276
11 19	**+140**	**+293**	**+452**	**+437**	**+344**	**+316**	**+392**	**+213**	**+302**	**+347**	**+297**	+193	**+310**
12 19	+123	+168	+404	+387	+311	+288	+324	+200	+275	+320	+237	+158	+266
13 19	+86	+165	+309	+281	+235	+248	+239	+163	+194	+215	+124	+94	+196
14 19	+71	+71	+186	+168	+137	+173	+116	+107	+131	+81	+35	+40	+110
15 19	+44	-14	+59	+65	+60	+62	+2	+58	+70	+9	-15	+12	+34
16 19	+25	-41	-24	-25	+11	-17	-85	+9	+24	-34	-55	-11	-19
17 19	-9	-58	-67	-75	-51	-73	-119	-21	-14	-55	-81	-46	-56
18 19	-19	-72	-92	-98	-91	-101	-136	-54	-62	-87	-37	-74	
19 19	-39	-75	-131	-118	-114	-110	-122	-75	-55	-82	-108	-40	-89
20 19	-57	-95	-168	-144	-135	-103	-126	**-92**	-65	-101	-118	-41	-104
21 19	-53	**-116**	**-194**	-159	-133	-106	-112	-77	-80	-110	**-122**	-60	-110
22 19	-54	-96	-170	-163	-129	-111	-125	-62	-81	-84	-85	-69	-102
23 19	-42	-96	-160	-165	-131	-124	-132	-88	-78	-101	-75	-58	-104
24 19	-36	-95	-147	-152	-122	-123	-116	-39	-90	-71	-88	-41	-93
Range ...	216	409	646	634	496	457	544	305	428	462	419	318	426

TABLE VIb.—*Showing for the quiet days locally selected, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1907.*

Unity = 0·1γ = 0·000001 C. G. S.

1907. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 52	-83	-116	-161	-182	**180**	**-163**	-133	-113	-161	**-131**	-127	**-126**	-140
0 52	-94	-114	-156	**-201**	-171	-155	-143	-124	-172	-128	-132	-110	-142
1 52	-98	-114	**-175**	-201	-147	-160	-163	-133	**-180**	-120	-118	-110	**-143**
2 52	-104	-116	-125	-194	-144	-143	-166	-150	-173	-110	-128	-115	-139
3 52	-83	-125	-137	-181	-134	-139	**-168**	**-155**	-167	-114	-130	-97	-136
4 52	-73	-118	-138	-178	-129	-155	-155	-133	-147	-115	-124	-81	-129
5 52	-72	-101	-127	-164	-109	-114	-132	-118	-147	-114	-103	-46	-112
6 52	-56	-80	-81	-97	-71	-40	-50	-95	-152	-129	-29	+13	-72
7 52	-5	-33	+30	+46	+22	+40	+47	-6	-81	-62	+74	+119	+16
8 52	+66	+60	+191	+231	+156	+178	+154	+145	+94	+49	+180	+196	+142
9 52	+157	+182	+360	+401	+290	+280	+245	+235	+269	+177	+270	+246	+259
10 52	+259	+313	**+420**	**+464**	**+341**	+396	**+287**	+310	+376	+291	**+294**	**+286**	+336
11 52	**+272**	**+384**	+387	+447	+312	**+410**	+276	**+321**	**+403**	**+341**	+259	+235	**+337**
12 52	+216	+342	+307	+355	+248	+326	+256	+320	+348	+278	+211	+162	+281
13 52	+151	+212	+185	+201	+169	+198	+218	+267	+247	+164	+118	+96	+185
14 52	+77	+104	+69	+80	+74	+72	+123	+159	+143	+67	+52	+16	+86
15 52	+27	-9	-29	+5	+9	-27	+32	+32	+52	+22	+20	-38	+8
16 52	-32	-63	-80	-78	-45	-89	-28	-60	-19	-3	-39	-71	-51
17 52	-62	-79	-80	-103	-79	-120	-74	-104	-55	-18	-49	-85	-76
18 52	-79	-67	-86	-125	-90	-129	-86	-118	-64	-35	-58	-101	-86
19 52	-101	-92	-118	-149	-92	-129	-90	-117	-92	-70	-86	-116	-104
20 52	**-106**	-114	-149	-152	-97	-129	-51	-126	-107	-86	-117	-115	-112
21 52	-100	**-134**	-156	-139	-85	-122	-85	-126	-119	-91	**-133**	-103	-116
22 52	-80	-130	-157	-123	-92	-116	-89	-115	-122	-90	-113	-91	-110
23 52	-74	-103	-147	-112	-94	-107	-95	-103	-101	-83	-113	-60	-99
Range ...	378	518	595	665	521	573	455	476	583	472	427	412	480

*These quiet days are selected from the Bombay records for the magnetic survey of India, as suitable for the derivation of the magnetic diurnal inequalities and are given at the foot of the tables IX*a* to IX*e* in the tables of magnetic results.

TABLE VIc.—*Showing for the quiet days locally selected, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1908.*

Unity = 0·1γ = 0·000001 C. G. S.

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 52	- 99	- 146	- 172	- 152	- 154	- 152	- 154	- 141	- 102	- 162	- 114	- 63	- 134
0 52	- 99	- 134	- 119	- 151	- 147	- 149	- 149	- 132	- 124	- 164	- 105	- 73	- 129
1 52	- 88	- 130	- 144	- 141	- 121	- 147	- 137	- 143	- 145	- 170	- 103	- 74	- 129
2 52	- 94	- 135	- 133	- 112	- 129	- 140	- 143	- 154	- 142	- 171	- 90	- 72	- 126
3 52	- 77	- 137	- 118	- 110	- 111	- 142	- 140	- 134	- 131	- 165	- 87	- 71	- 119
4 52	- 79	- 128	- 117	- 126	- 118	- 136	- 142	- 142	- 107	- 155	- 77	- 53	- 115
5 52	- 60	- 111	- 107	- 139	- 104	- 120	- 115	- 136	- 128	- 140	- 59	- 40	- 105
6 52	- 38	- 47	- 67	- 99	- 31	- 54	- 35	- 59	- 144	- 110	- 12	- 9	- 59
7 52	+ 21	+ 43	+ 25	+ 39	+ 75	+ 37	+ 61	+ 58	- 136	- 9	+ 53	+ 34	+ 25
8 52	+ 96	+ 145	+ 161	+ 199	+ 198	+ 144	+ 181	+ 196	+ 35	+ 165	+ 137	+ 76	+ 144
9 52	+ 158	+ 234	+ 297	+ 344	+ 326	+ 243	+ 278	+ 294	+ 236	+ 315	+ 211	+ 154	+ 257
10 52	+ 199	+ 316	+ 395	+ 403	+ 376	+ 308	+ 345	+ 314	+ 343	+ 408	+ 236	+ 208	+ 321
11 52	+ 195	+ 346	+ 384	+ 373	+ 331	+ 347	+ 350	+ 283	+ 354	+ 415	+ 215	+ 196	+ 316
12 52	+ 158	+ 311	+ 321	+ 289	+ 267	+ 326	+ 326	+ 241	+ 317	+ 312	+ 147	+ 133	+ 262
13 52	+ 112	+ 216	+ 197	+ 164	+ 172	+ 240	+ 229	+ 152	+ 202	+ 170	+ 70	+ 75	+ 167
14 52	+ 75	+ 115	+ 72	+ 59	+ 72	+ 131	+ 102	+ 77	+ 84	+ 77	+ 17	+ 24	+ 75
15 52	+ 33	+ 11	- 22	- 20	- 5	+ 37	- 19	+ 10	+ 9	+ 9	- 16	- 20	+ 1
16 52	+ 2	- 69	- 66	- 72	- 70	- 42	- 91	- 47	- 21	- 51	- 38	- 55	- 52
17 52	- 53	- 82	- 87	- 114	- 100	- 108	- 123	- 76	- 31	- 58	- 44	- 64	- 78
18 52	- 52	- 91	- 125	- 119	- 121	- 121	- 131	- 75	- 53	- 80	- 43	- 69	- 90
19 52	- 73	- 108	- 153	- 127	- 153	- 116	- 126	- 91	- 81	- 99	- 50	- 64	- 103
20 52	- 77	- 135	- 167	- 137	- 159	- 123	- 133	- 100	- 88	- 117	- 75	- 62	- 114
21 52	- 82	- 150	- 153	- 137	- 156	- 137	- 135	- 122	- 84	- 133	- 97	- 61	- 121
22 52	- 93	- 145	- 129	- 128	- 157	- 139	- 121	- 94	- 84	- 119	- 90	- 62	- 113
23 52	- 77	- 129	- 118	- 122	- 118	- 135	- 108	- 89	- 62	- 106	- 76	- 50	- 99
Range ..	298	496	567	555	535	499	504	468	499	586	350	282	455

TABLE VId.—*Showing for the quiet days locally selected, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1909.*

Unity = 0·1γ = 0·000001 C. G. S.

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 52	- 69	- 134	- 123	- 182	- 140	- 152	- 147	- 90	- 125	- 134	- 118	- 112	- 127
0 52	- 70	- 123	- 73	- 180	- 139	- 144	- 147	- 92	- 119	- 121	- 120	- 128	- 121
1 52	- 61	- 104	- 121	- 168	- 127	- 147	- 146	- 75	- 126	- 111	- 116	- 113	- 118
2 52	- 51	- 114	- 123	- 162	- 126	- 148	- 152	- 79	- 119	- 100	- 91	- 109	- 114
3 52	- 46	- 112	- 90	- 156	- 131	- 131	- 145	- 89	- 116	- 92	- 92	- 101	- 108
4 52	- 42	- 109	- 98	- 156	- 126	- 133	- 139	- 93	- 109	- 89	- 77	- 97	- 106
5 52	- 29	- 91	- 106	- 160	- 94	- 111	- 112	- 68	- 105	- 97	- 67	- 67	- 92
6 52	- 11	- 57	- 83	- 110	- 68	- 44	- 64	- 48	- 125	- 67	+ 2	- 11	- 57
7 52	+ 34	+ 13	- 9	+ 18	+ 5	+ 21	+ 20	- 2	- 104	+ 13	+ 108	+ 63	+ 15
8 52	+ 86	+ 115	+ 122	+ 218	+ 108	+ 120	+ 115	+ 106	+ 16	+ 130	+ 204	+ 118	+ 121
9 52	+ 123	+ 203	+ 259	+ 394	+ 241	+ 224	+ 234	+ 199	+ 182	+ 253	+ 269	+ 159	+ 228
10 52	+ 201	+ 252	+ 372	+ 479	+ 317	+ 300	+ 297	+ 259	+ 268	+ 323	+ 297	+ 221	+ 299
11 52	+ 190	+ 271	+ 374	+ 425	+ 340	+ 333	+ 330	+ 289	+ 315	+ 308	+ 272	+ 219	+ 305
12 52	+ 117	+ 219	+ 299	+ 333	+ 320	+ 313	+ 316	+ 238	+ 303	+ 222	+ 210	+ 168	+ 255
13 52	+ 44	+ 174	+ 180	+ 219	+ 240	+ 240	+ 261	+ 176	+ 236	+ 113	+ 109	+ 89	+ 173
14 52	- 11	+ 90	+ 61	+ 96	+ 132	+ 120	+ 158	+ 68	+ 131	+ 65	+ 36	+ 29	+ 81
15 52	- 30	+ 4	- 11	- 4	+ 44	+ 24	+ 38	- 21	+ 39	+ 24	- 37	- 8	+ 5
16 52	- 47	- 40	- 52	- 71	- 49	- 74	- 50	- 79	- 19	- 53	- 93	- 54	- 57
17 52	- 50	- 67	- 76	- 116	- 98	- 105	- 119	- 93	- 44	- 68	- 118	- 64	- 85
18 52	- 43	- 73	- 112	- 138	- 124	- 104	- 130	- 103	- 63	- 71	- 121	- 51	- 94
19 52	- 62	- 85	- 140	- 157	- 118	- 97	- 127	- 110	- 81	- 109	- 134	- 42	- 105
20 52	- 65	- 93	- 144	- 152	- 126	- 110	- 109	- 109	- 83	- 130	- 123	- 46	- 107
21 52	- 69	- 89	- 146	- 148	- 144	- 114	- 109	- 100	- 89	- 129	- 121	- 49	- 109
22 52	- 50	- 82	- 149	- 141	- 135	- 109	- 104	- 92	- 80	- 95	- 104	- 49	- 99
23 52	- 45	- 76	- 145	- 141	- 133	- 98	- 98	- 88	- 86	- 98	- 74	- 44	- 94
Range ...	271	405	523	661	484	485	482	399	441	457	431	349	432

TABLE VIe.—*Showing for the quiet days locally selected, the mean diurnal inequality of Horizontal Force for each month of the year, and for the whole year 1910.*

Unity = 0·1γ = 0·000001 C. G. S.

1910. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 52	− 80	− 81	− 130	**− 136**	− 89	− 66	− 118	**− 138**	− 10	− 123	− 110	**− 125**	− 100
0 52	**− 81**	− 83	− 91	− 123	**− 110**	− 94	− 121	− 122	− 45	**− 125**	**− 130**	− 89	**− 101**
1 52	− 80	**− 90**	− 103	− 121	− 93	− 100	− 117	− 116	− 45	− 123	− 80	− 102	− 97
2 52	− 74	− 76	− 106	− 123	− 83	**− 113**	**− 122**	− 116	− 29	− 108	− 67	− 89	− 92
3 52	− 65	− 62	− 99	− 111	− 95	− 101	− 120	− 123	− 30	− 102	− 80	− 78	− 89
4 52	− 65	− 53	− 94	− 104	− 84	− 93	− 121	− 127	− 42	− 101	− 69	− 75	− 86
5 52	− 59	− 40	− 84	− 115	− 85	− 86	− 107	− 126	− 47	− 97	− 44	− 46	− 78
6 52	− 31	− 8	− 63	− 94	− 44	− 43	− 53	− 94	**− 78**	− 90	+ 13	− 15	− 50
7 52	+ 16	+ 42	+ 31	− 37	+ 48	+ 51	+ 18	− 10	− 63	− 39	+ 92	+ 38	+ 16
8 52	+ 51	+ 116	+ 166	+ 112	+ 133	+ 130	+ 117	+ 111	0	+ 56	+ 174	+ 104	+ 106
9 52	+ 99	+ 159	+ 267	+ 258	+ 184	+ 230	+ 209	+ 197	+ 66	+ 175	+ 230	+ 162	+ 186
10 52	+ 183	+ 203	**+ 309**	**+ 336**	**+ 206**	**+ 262**	**+ 242**	+ 264	+ 134	+ 271	**+ 282**	**+ 211**	+ 242
11 52	**+ 193**	**+ 210**	+ 297	+ 321	+ 189	+ 258	+ 226	**+ 294**	**+ 177**	**+ 304**	+ 245	+ 207	**+ 243**
12 52	+ 170	+ 151	+ 243	+ 243	+ 138	+ 218	+ 209	+ 274	+ 150	+ 242	+ 149	+ 190	+ 198
13 52	+ 104	+ 53	+ 152	+ 148	+ 94	+ 147	+ 149	+ 193	+ 98	+ 162	+ 45	+ 103	+ 121
14 52	+ 62	− 9	+ 58	+ 77	+ 36	+ 53	+ 73	+ 129	+ 58	+ 61	− 1	+ 62	+ 55
15 52	− 3	− 39	+ 2	+ 8	− 12	− 38	+ 7	+ 64	+ 26	+ 2	− 47	+ 12	− 1
16 52	− 38	− 39	− 41	− 45	− 22	− 80	− 45	− 6	− 10	− 17	− 66	− 26	− 36
17 52	− 39	− 39	− 80	− 69	− 41	− 102	− 72	− 71	− 37	− 24	− 75	− 64	− 59
18 52	− 39	− 42	− 108	− 90	− 64	− 98	− 70	− 112	− 69	− 32	− 79	− 87	− 74
19 52	− 41	− 54	− 126	− 106	− 76	− 100	− 66	− 93	− 62	− 70	− 86	− 74	− 79
20 52	− 53	− 69	**− 152**	− 101	− 67	− 91	− 55	− 89	− 61	− 85	− 99	− 68	− 82
21 52	− 71	− 73	− 143	− 85	− 57	− 82	− 53	− 106	− 47	− 81	− 103	− 103	− 84
22 52	− 64	− 79	− 116	− 77	− 44	− 67	− 48	− 113	− 27	− 84	− 102	− 86	− 76
23 52	− 62	− 63	− 105	− 68	− 13	− 58	− 37	− 71	− 20	− 64	− 85	− 48	− 58
Range ...	274	300	461	472	316	375	364	432	255	429	412	336	344

TABLE VIf.—*Showing for the quiet days locally selected, the mean diurnal inequality of Horizontal Force for summer months (April to September), winter months (January to March and October to December), and the whole year, for each of the years 1906 to 1910.*

Unity = 0·1γ = 0·000001 C. G. S.

Bombay Civil Hours.	1906. April to September.	1906. October to March.	1906. Year.	1907. April to September.	1907. October to March.	1907. Year.	1908. April to September.	1908. October to March.	1908. Year.	1909. April to September.	1909. October to March.	1909. Year.	1910. April to September.	1910. October to March.	1910. Year.
0 ...	**− 133**	− 99	**− 116**	− 155	**− 124**	− 140	**− 142**	**− 126**	**− 134**	**− 139**	**− 115**	**− 127**	− 93	**− 103**	− 100
1 ...	− 126	− 100	− 113	− 161	− 122	− 142	− 142	− 116	− 129	− 137	− 106	− 121	**− 102**	− 100	**− 101**
2 ...	− 126	− 95	− 110	**− 164**	− 122	**− 143**	− 139	− 118	− 129	− 131	− 104	− 118	− 99	− 96	− 97
3 ...	− 131	− 96	− 114	− 162	− 116	− 139	− 137	− 116	− 126	− 131	− 98	− 114	− 98	− 87	− 92
3 ...	− 132	− 91	− 111	− 157	− 114	− 136	− 128	− 109	− 119	− 128	− 89	− 108	− 97	− 81	− 89
5 ...	− 129	− 81	− 105	− 149	− 108	− 129	− 128	− 101	− 115	− 126	− 85	− 106	− 95	− 76	− 86
6 ...	− 103	− 61	− 82	− 131	− 94	− 112	− 124	− 86	− 105	− 108	− 76	− 92	− 94	− 62	− 78
7 ...	− 49	− 22	− 36	− 84	− 60	− 72	− 70	− 47	− 59	− 76	− 38	− 57	− 68	− 32	− 50
8 ...	+ 66	+ 54	+ 60	+ 11	+ 20	+ 16	+ 22	+ 28	+ 25	− 7	+ 37	+ 15	+ 1	+ 30	+ 16
9 ...	+ 208	+ 154	+ 181	+ 160	+ 124	+ 142	+ 159	+ 130	+ 144	+ 114	+ 129	+ 121	+ 100	+ 111	+ 106
10 ...	+ 305	+ 247	+ 276	+ 287	+ 232	+ 259	+ 287	+ 228	+ 257	+ 246	+ 211	+ 228	+ 191	+ 182	+ 186
11 ...	**+ 334**	**+ 287**	**+ 310**	**+ 362**	+ 310	+ 336	**+ 348**	**+ 294**	**+ 321**	+ 320	**+ 278**	+ 299	+ 241	**+ 243**	+ 242
12 ...	+ 297	+ 235	+ 266	+ 361	**+ 313**	**+ 337**	+ 340	+ 292	+ 316	**+ 339**	+ 272	**+ 305**	**+ 244**	+ 243	**+ 243**
13 ...	+ 227	+ 165	+ 196	+ 309	+ 253	+ 281	+ 294	+ 230	+ 262	+ 304	+ 206	+ 255	+ 205	+ 191	+ 198
14 ...	+ 139	+ 81	+ 110	+ 217	+ 154	+ 185	+ 193	+ 140	+ 167	+ 229	+ 118	+ 173	+ 138	+ 103	+ 121
15 ...	+ 53	+ 16	+ 34	+ 108	+ 64	+ 86	+ 87	+ 63	+ 75	+ 117	+ 45	+ 81	+ 71	+ 39	+ 55
16 ...	− 14	− 23	− 19	+ 17	− 1	+ 8	+ 2	− 1	+ 1	+ 20	− 10	+ 5	+ 9	− 12	− 1
17 ...	− 59	− 53	− 56	− 53	− 48	− 51	− 57	− 46	− 52	− 57	− 56	− 57	− 35	− 38	− 36
18 ...	− 86	− 61	− 74	− 89	− 62	− 76	− 92	− 65	− 78	− 96	− 74	− 85	− 65	− 53	− 59
19 ...	− 99	− 79	− 89	− 102	− 71	− 86	− 103	− 77	− 90	− 110	− 78	− 94	− 84	− 64	− 74
20 ...	− 111	− 97	− 104	− 111	− 97	− 104	− 116	− 91	− 103	− 115	− 95	− 105	− 84	− 75	− 79
21 ...	− 111	**− 109**	− 110	− 110	− 114	− 112	− 123	− 105	− 114	− 115	− 100	− 107	− 77	− 88	− 82
22 ...	− 112	− 93	− 102	− 113	− 119	− 116	− 128	− 113	− 121	− 117	− 100	− 109	− 72	− 96	− 84
23 ...	− 120	− 89	− 104	− 109	− 110	− 110	− 120	− 106	− 113	− 110	− 88	− 99	− 63	− 88	− 76
24 ...	− 107	− 80	− 93	− 102	− 97	− 99	− 106	− 93	− 99	− 107	− 80	− 94	− 44	− 71	− 58
Range ...	467	396	426	526	437	480	490	420	455	478	393	432	346	351	344

TABLE VII*a*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Declination for each month of the year, and for the whole year 1906.*

Unity = 1 minute of arc.

1906. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
0 18	+0·08	+0·39	+0·10	+0·12	−0·17	+0·23	+0·21	−0·06	+0·31	+0·16	+0·21	**+0·37**	+0·16
1 18	+0·01	+0·30	+0·15	+0·26	−0·04	+0·35	+0·35	+0·01	+0·32	+0·22	+0·20	+0·29	+0·20
2 18	0·00	+0·17	+0·19	+0·25	−0·06	+0·41	+0·32	+0·13	+0·34	+0·16	+0·12	+0·17	+0·18
3 18	−0·02	−0·02	+0·10	+0·09	−0·01	+0·34	+0·38	+0·14	+0·31	+0·02	−0·04	+0·01	+0·11
4 18	−0·13	−0·26	−0·01	+0·03	+0·25	+0·47	+0·51	+0·32	+0·31	−0·02	−0·16	−0·12	+0·10
5 18	−0·24	−0·42	−0·20	+0·03	+0·78	+0·65	+0·95	+0·69	+0·42	−0·04	−0·27	−0·32	+0·17
6 18	−0·19	−0·37	−0·48	+0·68	+2·11	+1·70	+2·29	+2·46	+1·23	+0·20	−0·40	−0·42	+0·73
7 18	−0·05	−0·24	+0·34	+1·59	**+2·91**	**+2·25**	**+2·62**	**+3·36**	**+2·15**	+1·21	−0·33	**−0·74**	+1·26
8 18	+0·94	+0·51	+1·38	**+1·81**	+2·60	+1·75	+1·91	+2·91	+1·99	**+1·88**	+0·28	−0·41	**+1·46**
9 18	**+1·90**	**+1·01**	**+1·79**	+1·13	+1·39	+1·07	+0·59	+1·21	+0·83	+1·28	**+0·30**	−0·05	+1·04
10 18	+1·50	+0·78	+1·61	−0·19	−0·33	−0·03	−0·87	−0·87	−0·40	−0·13	−0·31	+0·13	+0·07
11 18	+0·14	0·00	+0·56	−1·28	−1·69	−1·27	−2·31	−2·16	−1·83	−1·37	**−0·68**	+0·17	−0·98
12 18	−0·66	**−0·50**	−0·79	**−1·60**	**−2·43**	−1·90	**−2·96**	**−2·68**	**−2·92**	**−1·71**	−0·43	+0·03	**−1·55**
13 18	−0·82	−0·48	**−1·68**	−1·23	−1·69	**−1·92**	−2·88	−2·44	−2·79	−1·22	+0·05	0·00	−1·42
14 18	**−0·98**	−0·32	−1·18	−0·81	−0·72	−1·70	−2·90	−1·61	−1·71	−0·50	+0·26	+0·20	−0·92
15 18	−0·79	−0·13	−0·30	−0·29	−0·31	−1·14	−0·84	−0·57	−0·33	+0·07	+0·24	−0·05	−0·37
16 18	−0·12	+0·07	+0·06	+0·21	+0·01	−0·42	+0·12	+0·28	+0·51	+0·40	+0·28	+0·05	+0·12
17 18	+0·01	−0·22	−0·09	+0·26	+0·02	+0·06	+0·71	+0·54	+0·68	0·00	+0·15	+0·12	+0·19
18 18	−0·30	−0·22	−0·36	+0·11	−0·20	−0·03	+0·53	+0·07	+0·26	−0·11	+0·06	+0·15	0·00
19 18	−0·03	−0·01	−0·34	−0·21	−0·53	−0·36	+0·02	−0·45	−0·04	−0·21	+0·07	+0·21	−0·16
20 18	+0·05	+0·03	−0·31	−0·37	−0·58	−0·34	−0·06	−0·45	−0·03	−0·09	+0·07	+0·17	−0·16
21 18	−0·03	−0·05	−0·24	−0·33	−0·51	−0·29	+0·10	−0·47	0·00	−0·02	+0·04	+0·03	−0·15
22 18	−0·14	−0·01	−0·21	−0·19	−0·40	+0·03	+0·05	−0·28	+0·13	−0·06	+0·06	+0·01	−0·08
23 18	−0·01	+0·11	−0·09	−0·01	−0·36	+0·20	+0·17	−0·16	+0·20	+0·04	+0·21	+0·16	+0·04
24 18	+0·07	+0·12	+0·02	+0·10	−0·35	+0·25	+0·19	−0·11	+0·31	+0·09	+0·14	+0·17	+0·08
Range ...	2·88	1·51	3·47	3·41	5·34	4·17	5·58	6·04	5·07	3·59	0·98	1·11	3·01

TABLE VII*b*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Declination for each month of the year, and for the whole year 1907.*

Unity = 1 minute of arc.

1907. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December	Year.
H. m.													
23 51	+0·14	+0·36	−0·11	+0·26	+0·14	+0·26	+0·19	+0·08	+0·06	+0·13	+0·34	+0·32	+0·18
0 51	+0·13	+0·45	−0·02	+0·32	+0·20	+0·35	+0·31	+0·22	+0·16	+0·17	+0·35	+0·33	+0·25
1 51	+0·12	+0·43	−0·01	+0·33	+0·31	+0·43	+0·50	+0·51	+0·25	+0·10	+0·26	+0·37	+0·30
2 51	+0·07	+0·32	−0·14	+0·24	+0·37	+0·43	+0·51	+0·51	+0·24	+0·09	+0·30	+0·26	+0·27
3 51	−0·01	+0·08	−0·26	+0·19	+0·35	+0·51	+0·52	+0·61	+0·24	+0·07	+0·19	−0·05	+0·20
4 51	−0·01	−0·05	−0·40	+0·15	+0·41	+0·71	+0·57	+0·62	+0·19	+0·01	+0·07	−0·23	+0·17
5 51	−0·16	−0·30	−0·45	+0·65	+1·17	+1·60	+1·41	+1·17	+0·59	+0·05	−0·14	−0·50	+0·42
6 51	−0·17	−0·35	−0·29	+1·79	+2·33	**+2·38**	**+2·23**	+2·18	+1·78	+0·98	−0·46	**−0·91**	+0·96
7 51	+0·15	+0·34	+0·78	**+2·27**	**+2·35**	+2·25	+2·20	**+2·22**	**+2·52**	**+1·56**	−0·03	−0·88	**+1·31**
8 51	+0·99	**+0·98**	+1·62	+1·84	+1·10	+1·62	+1·49	+1·34	+1·90	+1·31	+0·04	−0·65	+1·13
9 51	**+1·06**	+0·93	**+1·94**	+0·30	−0·60	+0·35	+0·19	+0·08	+0·38	+0·47	−0·20	−0·40	+0·37
10 51	−0·13	+0·29	+1·48	−1·42	−1·75	−1·26	−0·85	−1·30	−1·11	−0·79	**−0·61**	−0·34	−0·65
11 51	**−1·19**	−0·90	+0·30	−2·55	**−2·29**	−2·32	−2·04	−1·93	−2·28	**−1·57**	−0·61	−0·23	−1·47
12 51	−1·17	**−1·33**	−0·94	**−2·59**	−2·29	**−2·55**	**−2·08**	**−2·14**	**−2·42**	−1·28	−0·10	+0·11	**−1·56**
13 51	−0·77	−0·99	**−1·23**	−1·77	−1·79	−1·87	−1·94	−1·64	−1·88	−0·67	+0·35	+0·42	−1·15
14 51	−0·26	−0·80	−0·64	−0·81	−1·02	−1·19	−1·28	−1·07	−0·68	+0·12	**+0·53**	+0·41	−0·56
15 51	+0·47	−0·36	0·00	+0·05	−0·02	−0·60	−0·61	−0·41	+0·34	+0·35	+0·35	+0·40	0·00
16 51	+0·78	−0·02	−0·06	+0·53	+0·68	−0·31	−0·13	+0·04	+0·48	−0·11	−0·01	**+0·49**	+0·20
17 51	+0·16	+0·03	−0·24	+0·30	+0·57	−0·06	+0·17	+0·22	+0·05	−0·49	−0·20	+0·24	+0·06
18 51	+0·11	+0·13	−0·37	−0·04	−0·03	−0·20	−0·13	−0·21	−0·25	−0·27	−0·07	+0·24	−0·09
19 51	+0·13	+0·29	−0·25	−0·04	−0·09	−0·22	−0·38	−0·37	−0·24	−0·17	−0·05	+0·22	−0·10
20 51	−0·09	+0·29	−0·28	−0·09	−0·09	−0·29	−0·43	−0·34	−0·19	−0·08	−0·04	+0·16	−0·12
21 51	−0·13	+0·21	−0·27	+0·05	−0·02	−0·10	−0·30	−0·25	−0·12	−0·09	−0·09	+0·08	−0·09
22 51	−0·12	+0·09	−0·26	+0·16	+0·04	+0·06	−0·17	−0·14	−0·06	+0·04	−0·05	+0·09	−0·03
23 51	−0·14	+0·23	−0·11	+0·27	+0·21	+0·22	+0·10	+0·03	+0·05	+0·12	+0·08	+0·21	+0·11
Range ...	2·25	2·31	3·17	4·86	4·64	4·93	4·31	4·36	4·94	3·13	1·14	1·40	2·87

TABLE VIIc.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Declination for each month of the year, and for the whole year 1908.*

Unity = 1 minute of arc.

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 51	+0·09	−0·01	+0·22	+0·09	+0·20	+0·09	+0·07	+0·23	+0·07	+0·33	+0·14	+0·32	+0·15
0 51	+0·06	−0·05	+0·14	+0·20	+0·27	+0·31	+0·16	+0·31	+0·17	+0·37	+0·12	+0·29	+0·20
1 51	−0·06	−0·14	+0·07	+0·21	+0·41	+0·28	+0·21	+0·41	+0·25	+0·31	+0·07	+0·19	+0·18
2 51	−0·15	−0·26	−0·06	+0·04	+0·29	+0·29	+0·23	+0·53	+0·34	+0·30	+0·01	+0·10	+0·14
3 51	−0·29	−0·38	−0·13	−0·19	+0·16	+0·22	+0·23	+0·67	+0·30	+0·12	−0·13	−0·03	+0·05
4 51	−0·43	−0·63	−0·30	−0·22	+0·37	+0·33	+0·45	+1·00	+0·40	+0·08	−0·13	−0·23	+0·06
5 51	−0·52	−0·84	−0·32	+0·17	+1·20	+1·19	+1·28	+2·04	+1·03	−0·02	−0·10	−0·22	+0·41
6 51	−0·75	**−1·12**	+0·27	+1·51	+2·28	+1·97	+2·59	**+3·10**	+2·71	+0·33	−0·23	−0·37	+1·02
7 51	−0·15	−0·46	+1·18	**+2·17**	**+2·42**	**+2·36**	**+2·79**	+2·91	**+3·18**	+1·03	+0·39	−0·24	**+1·46**
8 51	**+0·85**	+0·49	**+1·55**	+1·61	+1·59	+1·66	+1·98	+1·38	+2·15	**+1·18**	**+0·80**	+0·03	+1·27
9 51	+0·68	**+1·07**	+1·40	+0·56	+0·10	+0·56	+0·52	−0·73	−0·01	+0·29	+0·34	−0·38	+0·37
10 51	−0·42	+1·05	+0·44	−0·52	−1·34	−0·60	−0·94	−2·43	−1·67	−0·97	−0·56	−0·64	−0·72
11 51	**−0·89**	+0·78	−0·88	−1·68	−2·01	−1·91	−1·78	**−3·56**	−2·72	**−1·73**	**−0·70**	**−0·71**	−1·48
12 51	−0·12	+0·77	**−1·48**	**−2·00**	**−2·17**	**−2·46**	**−2·22**	−3·35	**−2·72**	−1·60	−0·21	−0·49	**−1·50**
13 51	+0·58	+0·57	−1·23	−1·48	−1·71	−2·09	−2·19	−2·70	−2·16	−0·96	+0·14	−0·09	−1·11
14 51	+0·62	+0·27	−0·66	−0·61	−0·76	−1·17	−1·52	−1·27	−1·15	−0·16	+0·28	+0·41	−0·48
15 51	+0·21	+0·06	−0·08	+0·31	+0·01	−0·37	−0·62	+0·09	−0·09	+0·41	+0·14	**+0·56**	+0·05
16 51	+0·07	−0·04	+0·03	+0·68	+0·36	+0·20	−0·09	+0·81	+0·37	+0·31	−0·16	+0·27	+0·23
17 51	+0·03	−0·23	+0·06	+0·42	+0·17	+0·41	0·00	+0·78	+0·22	−0·02	−0·15	+0·22	+0·16
18 51	+0·15	−0·14	−0·02	−0·22	−0·38	−0·15	−0·31	+0·11	−0·10	+0·03	−0·10	+0·30	−0·07
19 51	+0·20	−0·05	−0·08	−0·42	−0·42	−0·38	−0·42	−0·07	−0·14	+0·03	−0·03	+0·28	−0·12
20 51	+0·17	−0·09	−0·02	−0·32	−0·42	−0·36	−0·28	−0·14	−0·16	+0·08	−0·08	+0·15	−0·12
21 51	+0·11	−0·20	0·00	−0·22	−0·33	−0·19	−0·17	−0·09	−0·17	+0·06	+0·02	+0·17	−0·08
22 51	+0·06	−0·22	+0·03	−0·10	−0·19	−0·07	−0·05	−0·04	−0·13	+0·16	+0·07	+0·12	−0·03
23 51	+0·09	−0·17	+0·08	−0·03	−0·10	+0·02	+0·04	+0·15	−0·01	+0·16	+0·13	+0·14	+0·04
Range ...	1·74	2·19	3·03	4·17	4·59	4·82	5·01	6·66	5·90	2·91	1·50	1·27	2·96

TABLE VIId.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Declination for each month of the year, and for the whole year 1909.*

Unity = 1 minute of arc.

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 51	+0·12	+0·25	+0·11	+0·12	+0·26	+0·13	−0·03	−0·01	+0·23	+0·21	+0·45	+0·32	+0·18
0 51	+0·11	+0·21	+0·09	+0·17	+0·28	+0·26	+0·01	+0·07	+0·36	+0·29	+0·50	+0·29	+0·22
1 51	+0·05	+0·14	+0·10	+0·14	+0·34	+0·36	+0·16	+0·09	+0·41	+0·25	+0·48	**+0·36**	+0·24
2 51	−0·06	+0·06	+0·03	+0·07	+0·35	+0·44	+0·24	+0·21	+0·41	+0·11	+0·43	+0·17	+0·20
3 51	−0·23	−0·04	−0·07	−0·02	+0·34	+0·38	+0·24	+0·31	+0·41	−0·01	+0·22	−0·06	+0·12
4 51	−0·38	−0·15	−0·20	−0·10	+0·37	+0·40	+0·24	+0·54	+0·42	−0·04	+0·02	−0·25	+0·07
5 51	−0·56	−0·24	−0·21	+0·28	+0·88	+0·87	+0·64	+1·57	+0·76	−0·04	−0·10	−0·36	+0·30
6 51	**−0·67**	+0·05	−0·01	+1·24	+1·63	+1·59	+1·39	+2·73	+1·61	+0·67	−0·12	**−0·81**	+0·77
7 51	−0·06	+0·19	+0·65	**+1·74**	**+1·82**	**+1·74**	**+1·67**	**+2·82**	**+1·74**	**+1·49**	+0·16	−0·56	**+1·12**
8 51	+1·00	+0·04	**+1·02**	+1·69	**+1·16**	+1·17	+1·20	+1·72	+0·77	+1·15	+0·21	−0·14	+0·92
9 51	**+1·20**	−0·25	+0·81	+0·83	−0·30	+0·06	+0·79	−0·10	−0·35	+0·15	−0·17	+0·05	+0·23
10 51	+0·68	−0·72	+0·07	−0·36	−1·30	−0·59	−0·04	−1·42	−1·28	−0·84	**−4·67**	−0·05	−0·88
11 51	−0·35	**−0·97**	−0·70	−1·32	−1·90	−1·05	−0·43	−2·48	**−1·89**	**−1·51**	−0·30	−0·17	−1·09
12 51	−0·56	−0·61	**−0·90**	**−1·60**	**−2·00**	**−1·31**	**−1·40**	**−2·73**	−1·82	−1·40	+0·25	+0·01	**−1·17**
13 51	−0·45	−0·16	−0·41	−1·32	−1·54	−1·13	−1·26	−2·31	−1·03	−0·87	+0·67	+0·22	−0·80
14 51	−0·15	+0·67	+0·17	−0·60	−0·75	−0·82	−0·79	−1·38	−0·22	−0·22	**+0·78**	+0·11	−0·27
15 51	+0·05	**+1·15**	+0·46	+0·08	−0·10	−0·57	−0·30	−0·26	+0·25	+0·20	+0·60	+0·19	+0·15
16 51	+0·22	+0·50	+0·46	+0·27	+0·27	−0·22	−0·09	+0·47	+0·34	−0·01	+0·11	+0·24	+0·21
17 51	+0·07	−0·26	+0·07	+0·06	+0·36	−0·13	+0·11	+0·53	−0·07	−0·10	−0·01	+0·13	+0·06
18 51	+0·09	−0·02	−0·30	−0·26	−0·06	−0·33	−0·24	+0·13	−0·39	−0·03	+0·09	+0·07	−0·10
19 51	−0·01	+0·05	−0·29	−0·36	−0·13	−0·48	−0·58	−0·08	−0·29	+0·10	+0·10	+0·06	−0·16
20 51	0·00	+0·03	−0·26	−0·30	−0·12	−0·43	−0·63	−0·21	−0·27	+0·05	+0·13	+0·07	−0·16
21 51	−0·07	+0·01	−0·35	−0·25	−0·06	−0·24	−0·51	−0·21	−0·12	+0·08	+0·15	+0·06	−0·12
22 51	−0·09	+0·07	−0·23	−0·11	+0·14	−0·13	−0·33	−0·10	−0·05	+0·25	+0·17	+0·08	−0·03
23 51	−0·02	+0·11	−0·13	−0·05	+0·20	−0·04	−0·15	−0·03	+0·06	+0·26	+0·30	+0·13	+0·05
Range ...	1·87	2·12	1·92	3·34	3·82	3·05	3·07	5·55	3·63	3·00	5·45	1·17	2·29

TABLE VIIe.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Declination for each month of the year, and for the whole year 1910.*

Unity = 1 minute of arc.

1910. Bombay Civil Time.		Month.												Year.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
H.	m.													
23	51	−0·14	+0·19	−0·03	+0·24	+0·44	+0·47	+0·29	+0·27	+0·03	+0·28	+0·37	+0·21	+0·22
0	51	−0·14	+0·15	−0·03	+0·24	+0·64	+0·59	+0·39	+0·31	+0·10	+0·35	+0·27	+0·19	+0·25
1	51	−0·29	+0·14	−0·10	+0·17	+0·66	+0·68	+0·42	+0·39	+0·24	+0·38	+0·16	−0·11	+0·23
2	51	−0·19	+0·03	−0·22	+0·13	+0·47	+0·69	+0·46	+0·54	+0·28	+0·19	+0·10	−0·22	+0·19
3	51	−0·36	−0·08	−0·28	−0·02	+0·40	+0·72	+0·48	+0·67	+0·30	−0·01	−0·16	−0·29	+0·11
4	51	−0·54	−0·24	−0·35	−0·05	+0·45	+0·91	+0·63	+0·75	+0·51	−0·34	−0·23	−0·40	+0·09
5	51	−0·65	−0·40	−0·24	+0·11	+1·31	+1·82	+1·25	+1·52	+1·19	−0·14	−0·42	−0·56	+0·40
6	51	**−0·81**	−0·62	+0·40	+1·17	+1·88	+2·48	+1·69	**+2·38**	**+2·42**	+0·64	**−0·63**	**−0·73**	+0·86
7	51	−0·17	−0·26	+1·22	+1·90	**+1·91**	**+2·65**	**+1·79**	+2·38	+2·42	**+1·22**	+0·08	−0·35	**+1·23**
8	51	+1·03	+0·33	**+1·53**	**+2·12**	+1·14	+1·19	+1·18	+1·46	+1·00	+0·97	+0·24	+0·24	+1·04
9	51	**+1·81**	+0·05	+1·38	+1·62	−0·31	−0·74	+0·10	−0·07	−0·62	+0·17	−0·04	+0·12	+0·29
10	51	+1·39	−0·77	+0·54	+0·25	−1·52	−1·97	**−2·87**	−1·52	−2·05	−0·69	−0·51	−0·21	−0·83
11	51	+0·06	**−0·90**	−0·66	−1·41	**−2·50**	−2·87	−1·60	−2·33	**−2·99**	−1·35	−0·57	−0·27	**−1·45**
12	51	−0·15	0·00	**−1·17**	**−2·05**	−2·43	**−3·07**	−1·61	**−2·43**	−2·76	**−1·45**	−0·33	+0·03	−1·45
13	51	−0·20	+0·69	−0·79	−1·92	−1·78	−2·17	−1·12	−2·05	−1·58	−0·79	+0·05	+0·22	−0·95
14	51	−0·35	**+0·84**	−0·10	−1·15	−0·78	−1·03	−0·52	−1·39	−0·14	−0·05	+0·12	**+0·38**	−0·35
15	51	+0·04	+0·65	+0·32	−0·32	+0·02	−0·36	+0·08	−0·51	+1·06	+0·49	+0·06	+0·37	+0·16
16	51	+0·01	+0·11	+0·20	+0·03	+0·41	+0·10	+0·30	+0·26	+1·14	+0·23	+0·02	+0·29	+0·26
17	51	−0·07	−0·28	−0·20	−0·02	+0·24	+0·09	+0·20	+0·20	+0·48	−0·10	+0·04	+0·30	+0·07
18	51	+0·02	+0·02	−0·29	−0·24	−0·16	−0·20	−0·28	−0·29	−0·06	−0·12	+0·09	+0·32	−0·10
19	51	−0·01	+0·10	−0·29	−0·30	−0·27	−0·23	−0·38	−0·25	−0·28	−0·05	+0·13	+0·15	−0·14
20	51	−0·02	+0·10	−0·24	−0·24	−0·22	−0·14	−0·38	−0·20	−0·24	+0·02	+0·28	+0·08	−0·10
21	51	−0·06	+0·10	−0·22	−0·15	−0·01	+0·07	−0·24	−0·08	−0·22	+0·03	+0·35	+0·09	−0·03
22	51	−0·13	+0·14	−0·22	−0·05	+0·12	+0·30	−0·06	+0·03	−0·09	+0·09	**+0·43**	+0·13	+0·06
23	51	−0·14	+0·21	−0·16	+0·07	+0·20	+0·51	+0·09	+0·15	−0·05	+0·17	+0·40	+0·16	+0·13
Range	...	2·62	1·74	2·70	4·17	4·41	5·72	4·66	4·81	5·41	2·67	1·06	1·11	2·68

TABLE VII*f*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Declination for summer months (April to September), winter months (January to March and October to December), and the whole year, for each of the years 1906 to 1910.*

Unity = 1 minute of arc.

Bombay Civil Hours.	1906.			1907.			1908.			1909.			1910.		
	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.
0 ...	+0·11	+0·22	+0·16	+0·16	+0·20	+0·18	+0·12	+0·18	+0·15	+0·12	+0·24	+0·18	+0·29	+0·15	+0·22
1 ...	+0·21	+0·19	+0·20	+0·26	+0·23	+0·25	+0·24	+0·15	+0·20	+0·19	+0·25	+0·22	+0·38	+0·13	+0·25
2 ...	+0·23	+0·13	+0·18	+0·39	+0·21	+0·30	+0·29	+0·07	+0·18	+0·25	+0·23	+0·24	+0·43	+0·03	+0·23
3 ...	+0·21	+0·01	+0·11	+0·38	+0·15	+0·27	+0·29	−0·01	+0·14	+0·29	+0·12	+0·20	+0·43	−0·05	+0·19
4 ...	+0·31	−0·12	+0·10	+0·40	0·00	+0·20	+0·23	−0·14	+0·05	+0·28	−0·03	+0·12	+0·42	−0·20	+0·11
5 ...	+0·59	−0·25	+0·17	+0·44	−0·10	+0·17	+0·39	−0·27	+0·06	+0·31	−0·17	+0·07	+0·53	−0·35	+0·09
6 ...	+1·74	−0·28	+0·73	+1·10	−0·25	+0·42	+1·15	−0·34	+0·41	+0·83	−0·24	+0·30	+1·20	−0·40	+0·40
7 ...	**+2·48**	+0·03	+1·26	+2·11	−0·20	+0·96	+2·36	−0·31	+1·02	+1·70	−0·15	+0·77	+2·00	−0·29	+0·86
8 ...	+2·16	+0·76	**+1·46**	**+2·30**	+0·32	**+1·31**	**+2·64**	+0·29	**+1·46**	**+1·92**	+0·31	**+1·12**	**+2·17**	+0·29	**+1·23**
9 ...	+1·04	**+1·04**	+1·04	+1·55	**+0·71**	+1·13	+1·73	**+0·82**	+1·27	+1·28	**+0·55**	+0·92	+1·35	**+0·72**	+1·04
10 ...	−0·45	+0·60	+0·07	+0·12	+0·63	+0·37	+0·17	+0·57	+0·37	+0·15	+0·30	+0·23	0·00	+0·58	+0·29
11 ...	−1·76	−0·20	−0·98	−1·28	−0·02	−0·65	−1·25	−0·18	−0·72	−0·83	**−0·92**	−0·88	−1·61	−0·04	−0·83
12 ...	**−2·41**	−0·68	**−1·55**	−2·23	−0·70	−1·47	−2·28	**−0·69**	−1·48	−1·51	−0·67	−1·09	−2·28	**−0·61**	**−1·45**
13 ...	−2·16	**−0·69**	−1·42	**−2·34**	**−0·78**	**−1·56**	**−2·49**	−0·52	**−1·50**	**−1·81**	−0·53	**−1·17**	**−2·39**	−0·51	−1·45
14 ...	−1·42	−0·42	−0·92	−1·81	−0·48	−1·15	−2·05	−0·16	−1·11	−1·43	−0·17	−0·80	−1·77	−0·14	−0·95
15 ...	−0·58	−0·16	−0·37	−1·01	−0·11	−0·56	−1·08	+0·13	−0·48	−0·76	+0·23	−0·27	−0·83	+0·14	−0·35
16 ...	+0·12	+0·12	+0·12	−0·21	+0·20	0·00	−0·11	+0·22	+0·05	−0·15	+0·44	+0·15	0·00	+0·32	+0·16
17 ...	+0·38	0·00	+0·19	+0·21	+0·18	+0·20	+0·39	+0·08	+0·23	+0·17	+0·25	+0·21	+0·37	+0·14	+0·26
18 ...	+0·12	−0·13	0·00	+0·21	−0·08	+0·06	+0·33	−0·01	+0·16	+0·14	−0·02	+0·06	+0·20	−0·05	+0·07
19 ...	−0·26	−0·05	−0·16	−0·14	−0·04	−0·09	−0·17	+0·04	−0·07	−0·18	−0·02	−0·10	−0·20	+0·01	−0·10
20 ...	−0·30	−0·01	−0·16	−0·22	+0·03	−0·10	−0·31	+0·06	−0·12	−0·32	0·00	−0·16	−0·28	0·00	−0·14
21 ...	−0·25	−0·04	−0·15	−0·24	−0·01	−0·12	−0·28	+0·03	−0·12	−0·33	0·00	−0·16	−0·24	+0·04	−0·10
22 ...	−0·11	−0·06	−0·08	−0·12	−0·05	−0·09	−0·19	+0·03	−0·08	−0·23	−0·02	−0·12	−0·10	+0·05	−0·03
23 ...	+0·01	+0·07	+0·04	−0·02	−0·03	−0·03	−0·10	+0·04	−0·03	−0·10	+0·04	−0·03	+0·04	+0·07	+0·06
24 ...	+0·06	+0·10	+0·08	+0·15	+0·06	+0·11	+0·01	+0·07	+0·04	0·00	+0·11	+0·05	+0·16	+0·11	+0·13
Range ...	4·89	1·73	3·01	4·64	1·49	2·87	5·13	1·51	2·96	3·73	1·47	2·29	4·56	1·33	2·68

TABLE VIIIa.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Declination for each month of the year, and for the whole year 1906.*

Unity = 1 minute of arc.

1906. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year
H. m.													
5 18	−0·37	−0·46	−0·32	0·00	+0·49	+0·64	+0·66	+0·69	+0·45	+0·29	−0·12	−0·29	+0·14
6 18	−0·37	−0·47	−0·50	+0·77	+1·71	+1·61	+1·98	+2·48	+1·30	+0·76	−0·33	−0·36	+0·71
7 18	−0·17	−0·33	+0·51	+1·81	+2·67	**+2·09**	**+2·61**	**+3·21**	**+2·23**	**+1·64**	−0·23	**−0·77**	+1·27
8 18	+0·82	+0·53	+1·59	**+1·96**	**+2·77**	+1·93	+2·16	+2·60	+1·96	+1·45	+0·07	−0·39	**+1·45**
9 18	**+1·33**	**+1·18**	**+2·18**	+1·20	+1·46	+1·17	+0·87	+0·89	+1·02	+0·80	+0·30	0·00	+1·03
10 18	+0·66	+0·85	+2·03	−0·20	−0·25	+0·06	−0·50	−1·10	−0·26	−0·49	−0·16	+0·22	+0·08
11 18	−0·16	+0·10	+0·78	−1·34	−1·71	−1·30	−1·99	−2·19	−1·78	−1·63	**−0·72**	−0·03	−1·00
12 18	**−0·59**	−0·40	−0·90	**−1·72**	**−2·50**	−1·99	**−2·57**	**−2·55**	**−3·01**	**−2·15**	−0·57	−0·40	**−1·61**
13 18	−0·27	**−0·58**	**−1·80**	−1·35	−1·93	**−2·28**	−2·45	−2·28	−2·82	−2·14	−0·05	−0·31	−1·52
14 18	−0·30	−0·23	−1·12	−0·81	−0·93	−1·69	−2·01	1·48	−1·68	−0·87	**+0·31**	+0·13	−0·89
15 18	−0·24	+0·05	−0·08	−0·11	−0·43	−0·81	−1·01	−0·34	−0·39	+0·15	+0·14	+0·06	−0·25
16 18	+0·07	+0·29	+0·46	+0·39	+0·05	−0·46	−0·15	+0·43	+0·46	+0·60	+0·01	+0·09	+0·19
17 18	+0·08	−0·14	+0·19	+0·36	+0·12	−0·24	+0·36	+0·66	+0·69	+0·23	+0·02	+0·20	+0·21
18 18	−0·17	−0·31	−0·33	+0·09	+0·01	−0·14	+0·49	+0·21	+0·30	+0·03	0·00	+0·24	+0·03
19 18	+0·13	−0·09	−0·46	−0·21	−0·21	−0·41	−0·05	−0·38	−0·06	0·00	+0·10	+0·26	−0·12
20 18	+0·11	−0·04	−0·48	−0·39	−0·33	−0·43	−0·11	−0·42	−0·12	−0·03	+0·17	+0·27	−0·15
21 18	−0·04	+0·01	−0·38	−0·34	−0·29	−0·31	−0·01	−0·43	−0·10	+0·04	+0·11	+0·17	−0·13
22 18	−0·12	+0·07	−0·35	−0·21	−0·17	−0·07	+0·07	−0·20	+0·07	0·00	+0·14	+0·15	−0·05
23 18	−0·04	+0·13	−0·25	−0·06	−0·12	+0·20	+0·12	−0·08	+0·11	+0·12	+0·19	+0·27	+0·05
0 18	0·00	+0·11	−0·12	+0·02	−0·12	+0·32	+0·22	−0·04	+0·26	+0·25	+0·28	**+0·33**	+0·13
1 18	0·00	+0·04	−0·11	+0·08	−0·03	+0·47	+0·25	−0·01	+0·34	+0·26	+0·21	+0·22	+0·14
2 18	−0·07	+0·05	−0·10	+0·06	−0·05	+0·54	+0·27	+0·06	+0·35	+0·28	+0·19	+0·14	+0·14
3 18	−0·06	−0·09	−0·22	−0·05	−0·04	+0·48	+0·35	+0·08	+0·28	+0·24	+0·06	+0·06	+0·09
4 18	−0·24	−0·29	−0·33	−0·09	+0·01	+0·57	+0·42	+0·24	+0·29	+0·20	−0·09	−0·16	+0·04
5 18	−0·40	−0·43	−0·40	+0·04	+0·34	+0·79	+0·72	+0·60	+0·52	+0·15	−0·16	−0·27	+0·12
Range ...	1·92	1·76	3·98	3·68	5·27	4·37	5·18	5·76	5·24	3·79	1·03	1·10	3·06

TABLE VIIIb.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Declination for each month of the year, and for the whole year 1907.*

Unity = 1 minute of arc.

1907. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 51	−0·29	−0·04	−0·48	+0·14	+0·46	+0·83	+0·69	+0·65	+0·43	−0·01	0·00	−0·31	+0·17
5 51	−0·31	−0·29	−0·49	+0·52	+1·23	+1·71	+1·42	+1·32	+0·96	+0·14	−0·05	−0·50	+0·47
6 51	−0·20	−0·34	+0·02	+1·62	**+2·30**	**+2·30**	**+2·30**	**+2·16**	+2·29	+1·07	−0·37	**−0·91**	+1·02
7 51	+0·17	+0·35	+1·14	**+2·14**	+2·24	+2·07	+2·29	+2·07	**+2·63**	**+1·59**	+0·03	−0·64	**+1·34**
8 51	+1·08	**+0·99**	+1·88	+1·64	+1·02	+1·38	+1·56	+1·09	+1·57	+1·49	+0·24	−0·15	+1·15
9 51	+1·01	+0·94	**+2·16**	+0·54	−0·73	0·00	+0·22	−0·26	−0·04	+0·73	−0·20	+0·10	+0·37
10 51	−0·54	+0·30	+1·48	−0·80	−1·90	−1·63	−1·05	−1·63	−1·59	−0·44	**−0·65**	+0·13	−0·69
11 51	**−1·68**	−0·89	+0·10	−1·93	**−2·38**	−2·64	−3·08	−2·24	−2·74	**−1·19**	−0·60	+0·34	−1·49
12 51	−1·18	**−1·32**	−0·99	**−2·20**	−2·38	**−2·78**	**−2·25**	**−2·25**	**−2·78**	−1·19	−0·16	**+0·77**	**−1·56**
13 51	−0·48	−0·98	**−1·16**	−1·83	−1·72	−1·94	−1·99	−1·57	−1·92	−0·68	+0·48	+0·59	−1·10
14 51	+0·34	−0·79	−0·53	−1·08	−0·93	−0·97	−1·49	−0·83	−0·57	+0·05	**+0·54**	+0·05	−0·52
15 51	+1·14	−0·35	+0·20	−0·16	+0·01	−0·26	−0·86	−0·11	+0·47	+0·40	+0·35	−0·06	+0·06
16 51	**+1·22**	−0·01	+0·03	+0·29	+0·65	+0·04	−0·30	+0·33	+0·56	−0·06	+0·10	+0·21	+0·25
17 51	+0·24	+0·04	−0·27	+0·15	+0·51	+0·11	+0·15	+0·45	+0·10	−0·54	−0·10	+0·15	+0·08
18 51	+0·16	+0·14	−0·49	−0·08	−0·07	−0·07	−0·08	−0·02	−0·14	−0·37	+0·01	+0·21	−0·07
19 51	+0·23	+0·30	−0·31	−0·01	−0·09	−0·09	−0·33	−0·19	−0·14	−0·30	+0·06	+0·20	−0·06
20 51	+0·02	+0·30	−0·34	−0·07	−0·09	−0·08	−0·31	−0·23	−0·14	−0·26	+0·09	+0·16	−0·08
21 51	−0·06	+0·22	−0·34	+0·03	+0·05	+0·01	−0·10	−0·21	−0·03	−0·25	0·00	+0·05	−0·05
22 51	−0·07	+0·10	−0·33	+0·08	+0·15	+0·20	0·00	−0·08	+0·03	−0·06	−0·04	+0·05	0·00
23 51	−0·99	+0·24	−0·20	+0·20	+0·31	+0·25	+0·19	+0·07	+0·10	+0·03	+0·08	+0·15	+0·11
0 51	−0·16	+0·34	−0·15	+0·21	+0·39	+0·34	+0·38	+0·23	+0·21	+0·03	+0·11	+0·12	+0·17
1 51	−0·17	+0·36	−0·14	+0·25	+0·36	+0·39	+0·51	+0·37	+0·29	0·00	+0·10	0·00	+0·19
2 51	−0·15	+0·28	−0·22	+0·17	+0·35	+0·40	+0·59	+0·42	+0·28	−0·02	+0·05	−0·13	+0·17
3 51	−0·16	+0·19	−0·40	+0·19	+0·32	+0·52	+0·56	+0·49	+0·30	−0·06	−0·05	−0·31	+0·13
4 51	−0·20	−0·01	−0·56	+0·06	+0·45	+0·74	+0·70	+0·64	+0·33	−0·05	−0·17	−0·47	+0·12
Range ...	2·90	2·31	3·32	4·34	4·68	5·08	4·55	4·41	5·41	2·78	1·19	1·71	2·90

TABLE VIIIc.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Declination for each month of the year, and for the whole year 1908.*

Unity = 1 minute of arc.

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 51	−0·42	−0·58	−0·22	−0·04	+0·32	+0·63	+0·52	+1·20	+0·43	+0·06	−0·06	−0·20	+0·14
5 51	−0·40	−0·87	−0·25	+0·49	+0·96	+1·33	+1·34	+2·28	+1·06	+0·01	+0·02	−0·19	+0·48
6 51	−0·52	**−1·17**	+0·40	+1·88	+1·99	**+2·10**	+2·53	**+3·36**	+2·58	+0·41	−0·01	−0·34	+1·10
7 51	−0·04	−0·40	+1·27	**+2·21**	**+2·25**	+2·04	**+2·59**	+3·19	**+3·21**	+1·10	+0·50	−0·21	**+1·48**
8 51	+0·86	+0·70	**+1·64**	+1·45	+1·71	+1·19	+1·70	+1·38	+2·18	**+1·16**	**+0·67**	+0·06	+1·22
9 51	**+1·03**	**+1·45**	+1·28	+0·43	−0·13	−0·06	+0·59	−0·87	+0·02	+0·15	+0·06	−0·35	+0·30
10 51	+0·27	+1·31	+0·27	−1·01	−1·68	−1·16	−1·00	−2·80	−1·63	−1·03	−0·94	−0·61	−0·83
11 51	−0·40	+0·85	−1·08	**−2·06**	**−2·31**	−2·12	−2·09	**−3·98**	**−2·69**	**−1·77**	**−1·09**	**−0·68**	**−1·62**
12 51	−0·04	+0·78	**−1·67**	−1·96	−2·26	**−2·32**	**−2·52**	−3·34	−2·69	−1·36	−0·49	−0·46	−1·53
13 51	+0·24	+0·53	−1·45	−1·39	−1·56	−1·83	−2·23	−2·51	−2·13	−0·51	+0·12	−0·06	−1·06
14 51	+0·14	+0·23	−0·84	−0·52	−0·72	−0·86	−1·40	−1·48	−1·12	+0·12	+0·42	+0·44	−0·47
15 51	+0·07	−0·03	−0·12	+0·34	+0·24	−0·33	−0·57	−0·32	−0·06	+0·53	+0·47	**+0·59**	+0·07
16 51	−0·06	−0·23	+0·12	+0·62	+0·70	−0·11	+0·02	+0·58	+0·40	+0·33	+0·02	+0·30	+0·22
17 51	−0·07	−0·36	+0·13	+0·39	+0·63	+0·16	+0·07	+0·66	+0·25	−0·12	−0·17	+0·25	+0·15
18 51	+0·09	−0·19	+0·03	−0·02	−0·07	−0·07	−0·21	+0·12	−0·07	−0·09	−0·08	+0·33	−0·02
19 51	+0·12	−0·07	0·00	−0·24	−0·14	−0·25	−0·33	−0·06	−0·11	−0·03	−0·05	+0·31	−0·07
20 51	+0·08	−0·11	+0·06	−0·16	−0·26	−0·19	−0·23	−0·11	−0·13	+0·05	−0·07	+0·19	−0·07
21 51	−0·01	−0·23	+0·07	−0·21	−0·15	+0·03	−0·01	+0·04	−0·14	+0·01	+0·05	+0·21	−0·03
22 51	−0·05	−0·20	+0·12	−0·08	−0·08	+0·12	+0·02	+0·15	−0·10	+0·19	+0·11	+0·15	+0·03
23 51	−0·05	−0·12	+0·19	−0·02	+0·03	+0·25	+0·12	+0·28	+0·02	+0·20	+0·16	+0·17	+0·10
0 51	−0·07	−0·12	+0·16	+0·05	+0·07	+0·43	+0·26	+0·36	+0·10	+0·25	+0·19	+0·16	+0·15
1 51	−0·16	−0·25	+0·10	+0·08	+0·17	+0·49	+0·31	+0·47	+0·16	+0·19	+0·16	+0·12	+0·15
2 51	−0·26	−0·33	−0·08	−0·02	+0·13	+0·41	+0·32	+0·64	+0·24	+0·15	+0·10	+0·02	+0·11
3 51	−0·38	−0·42	−0·16	−0·19	+0·08	+0·33	+0·32	+0·77	+0·28	0·00	−0·08	−0·11	+0·04
4 51	**−0·54**	−0·67	−0·27	−0·10	+0·31	+0·38	+0·44	+1·05	+0·33	−0·04	−0·15	−0·25	+0·04
Range ...	1·57	2·62	3·31	4·27	4·56	4·42	5·11	7·34	5·90	2·93	1·70	1·27	3·10

TABLE VIIId.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Declination for each month of the year, and for the whole year 1909.*

Unity = 1 minute of arc.

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 51	−0·43	−0·08	−0·28	−0·09	+0·27	+0·38	+0·42	+0·63	+0·43	+0·02	+0·11	−0·30	+0·09
5 51	**−0·52**	−0·10	−0·31	+0·29	+1·07	+0·85	+0·89	+1·64	+0·82	+0·09	0·00	−0·45	+0·36
6 51	−0·49	+0·05	0·00	+1·25	+2·06	+1·59	+1·50	**+2·86**	+1·70	+0·67	−0·01	**−0·71**	+0·87
7 51	+0·12	−0·04	+0·70	**+1·75**	**+2·27**	**+1·79**	**+1·66**	+2·86	**+1·79**	**+1·55**	+0·33	−0·46	**+1·19**
8 51	+0·98	−0·43	**+1·19**	+1·70	+1·43	+1·32	+1·25	+1·56	+0·76	+1·25	+0·26	−0·03	+0·94
9 51	**+1·20**	−0·76	+1·08	+0·84	+0·17	+0·37	+0·66	−0·19	−0·52	+0·25	−0·20	+0·13	+0·25
10 51	+0·57	−1·03	+0·29	−0·35	−0·89	−0·48	−0·22	−1·70	−1·42	−0·61	**−4·76**	−0·14	−0·89
11 51	−0·21	**−1·16**	−0·35	−1·31	−1·73	−1·10	−0·91	**−2·63**	**−1·92**	**−1·27**	−0·34	−0·11	**−1·09**
12 51	−0·31	−0·72	**−0·78**	**−1·59**	**−1·84**	**−1·25**	−1·63	−2·61	−1·69	−1·16	+0·33	+0·11	−1·09
13 51	−0·29	−0·04	−0·31	−1·31	−1·40	−0·99	**−1·85**	−2·23	−0·80	−0·74	+0·77	+0·26	−0·74
14 51	−0·11	+0·95	+0·16	−0·59	−0·81	−0·74	−1·41	−1·27	+0·13	−0·11	**+0·86**	+0·10	−0·24
15 51	+0·13	**+1·53**	+0·39	+0·09	−0·36	−0·39	−0·65	−0·39	+0·64	+0·15	+0·68	+0·21	+0·17
16 51	+0·15	+1·03	+0·32	+0·28	0·00	−0·11	−0·14	+0·29	+0·63	−0·16	+0·13	**+0·30**	+0·23
17 51	−0·06	+0·12	−0·09	+0·07	+0·12	−0·10	+0·20	+0·34	−0·05	−0·26	−0·01	+0·22	+0·04
18 51	+0·05	+0·16	−0·37	−0·25	−0·19	−0·39	−0·05	+0·03	−0·37	−0·17	+0·11	+0·14	−0·11
19 51	+0·01	+0·05	−0·36	−0·35	−0·39	−0·49	−0·31	−0·07	−0·38	−0·05	+0·15	+0·12	−0·17
20 51	−0·02	−0·06	−0·29	−0·29	−0·27	−0·43	−0·32	−0·14	−0·31	−0·09	+0·20	+0·14	−0·16
21 51	−0·05	−0·09	−0·29	−0·24	−0·12	−0·25	−0·17	−0·09	−0·15	−0·04	+0·15	+0·13	−0·10
22 51	−0·05	−0·05	−0·20	−0·10	+0·01	−0·12	0·00	−0·03	−0·08	0·00	+0·20	+0·12	−0·02
23 51	−0·03	0·00	−0·10	−0·04	+0·08	−0·03	+0·07	+0·07	+0·04	+0·14	+0·32	+0·20	+0·06
0 51	−0·03	+0·13	−0·13	+0·06	+0·09	+0·10	+0·10	+0·14	+0·17	+0·24	+0·34	+0·16	+0·11
1 51	−0·08	+0·21	−0·08	+0·13	+0·16	+0·29	+0·21	+0·26	+0·24	+0·21	+0·33	+0·07	+0·16
2 51	−0·17	+0·19	−0·16	+0·11	+0·19	+0·24	+0·28	+0·32	+0·25	+0·16	+0·22	−0·01	+0·13
3 51	−0·32	+0·07	−0·15	+0·02	+0·17	+0·16	+0·31	+0·37	+0·23	+0·07	0·00	−0·17	+0·06
4 51	−0·42	−0·11	−0·23	−0·07	+0·25	+0·22	+0·35	+0·54	+0·20	+0·01	−0·09	−0·33	+0·03
Range ...	1·72	2·69	1·97	3·34	4·11	3·04	3·51	5·49	3·71	2·82	5·62	1·01	2·28

TABLE VIIIe.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Declination for each month of the year, and for the whole year 1910.*

Unity = 1 minute of arc.

1910. Bombay Civil Time.		Month.												Year.
H.	m.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
4	51	−0·48	−0·12	−0·35	−0·05	+0·50	+0·73	+0·47	+0·76	+0·61	−0·36	−0·23	−0·42	+0·09
5	51	−0·60	−0·28	−0·24	+0·15	+1·36	+1·40	+1·15	+1·55	+1·27	−0·14	−0·42	−0·52	+0·39
6	51	**−0·82**	**−0·54**	+0·40	+1·19	+1·93	+2·12	+1·66	+2·40	**+2·51**	+0·38	**−0·63**	**−0·76**	+0·84
7	51	−0·24	−0·19	+1·22	+1·89	**+1·96**	**+2·41**	**+1·67**	**+2·51**	+2·47	**+1·15**	+0·08	−0·34	**+1·22**
8	51	+0·94	+0·31	**+1·53**	**+2·16**	+1·19	+1·69	+0·90	+1·64	+0·90	+0·99	+0·24	+0·22	+1·06
9	51	**+1·61**	+0·19	+1·38	+1·57	−0·26	+0·27	−0·27	−0·02	−0·67	+0·21	−0·04	+0·07	+0·34
10	51	+1·18	−0·35	+0·54	−0·02	−1·47	−1·24	−1·19	−1·48	−1·91	−0·67	−0·51	−0·04	−0·60
11	51	+0·06	−0·48	−0·66	−1·63	**−2·45**	−2·28	**−1·53**	−2·45	**−3·04**	−1·32	−0·57	+0·09	−1·35
12	51	−0·12	+0·07	**−1·17**	**−2·13**	−2·37	**−2·46**	−1·46	**−2·51**	−3·02	**−1·35**	−0·33	**+0·39**	**−1·37**
13	51	−0·26	+0·40	−0·79	−1·89	−1·73	−2·00	−0·99	−2·08	−1·86	−0·64	+0·05	+0·33	−0·95
14	51	−0·32	**+0·41**	−0·10	−1·09	−0·73	−1·00	−0·52	−1·45	−0·42	+0·12	+0·12	+0·37	−0·38
15	51	−0·02	+0·25	+0·32	−0·19	+0·07	−0·23	0·00	−0·52	+0·80	+0·69	+0·06	+0·39	+0·13
16	51	+0·11	−0·10	+0·20	+0·27	+0·46	−0·08	+0·12	+0·25	+1·07	+0·37	+0·02	+0·29	+0·25
17	51	+0·08	−0·22	−0·20	+0·16	+0·29	−0·10	+0·04	+0·28	+0·60	−0·08	+0·04	+0·25	+0·09
18	51	+0·08	+0·03	−0·29	−0·16	−0·11	−0·29	−0·35	−0·19	+0·09	−0·12	+0·09	+0·17	−0·09
19	51	+0·03	+0·06	−0·29	−0·27	−0·22	−0·29	−0·42	−0·13	−0·14	−0·05	+0·13	+0·09	−0·12
20	51	0·00	+0·05	−0·24	−0·22	−0·16	−0·17	−0·30	−0·15	−0·08	+0·05	+0·28	+0·05	−0·07
21	51	−0·01	+0·04	−0·22	−0·17	+0·04	−0·03	−0·10	−0·04	−0·06	+0·09	+0·35	+0·03	−0·01
22	51	−0·09	+0·06	−0·22	−0·04	+0·17	+0·06	+0·01	+0·08	+0·02	+0·12	**+0·43**	+0·09	+0·06
23	51	−0·14	+0·10	−0·16	+0·09	+0·25	+0·23	+0·10	+0·16	+0·10	+0·17	+0·40	+0·09	+0·12
0	51	−0·11	+0·12	−0·11	+0·16	+0·29	+0·26	+0·19	+0·29	+0·20	+0·21	+0·31	+0·04	+0·15
1	51	−0·19	+0·19	−0·07	+0·16	+0·36	+0·34	+0·23	+0·33	+0·25	+0·15	+0·13	−0·19	+0·14
2	51	−0·32	+0·06	−0·24	+0·13	+0·37	+0·38	+0·28	+0·39	+0·24	+0·05	+0·04	−0·27	+0·09
3	51	−0·45	−0·08	−0·27	+0·01	+0.35	+0·39	+0·31	+0·41	+0·30	−0·15	−0·11	−0·42	+0·02
4	51	−0·56	−0·22	−0·35	−0·10	+0·38	+0·63	+0·48	+0·51	+0·52	−0·47	−0·21	−0·59	0·00
Range ...		2·43	0·95	2·70	4·29	4·41	4·87	3·20	5·02	5·55	2·50	1·06	1·15	2·59

TABLE VIII*f*.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Declination for summer months (April to September), winter months (January to March and October to December), and the whole year, for each of the years 1906 to 1910.*

Unity = 1 minute of arc.

Bombay Civil Hours.	1906.			1907.			1908.			1909.			1910.		
	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.
5 ...	+0·49	−0·21	+0·14	+0·53	−0·19	+0·17	+0·51	−0·24	+0·14	+0·34	−0·16	+0·09	+0·50	−0·33	+0·09
6 ...	+1·64	−0·21	+0·71	+1·19	−0·25	+0·47	+1·24	−0·28	+0·48	+0·93	−0·21	+0·36	+1·15	−0·37	+0·39
7 ...	**+2·44**	+0·11	+1·27	+2·16	−0·13	+1·02	+2·41	−0·20	+1·10	+1·83	−0·08	+0·87	+1·97	−0·29	+0·84
8 ...	+2·23	+0·68	**+1·45**	**+2·24**	+0·44	**+1·34**	**+2·58**	+0·37	**+1·48**	**+2·02**	+0·37	**+1·19**	**+2·15**	+0·28	**+1·22**
9 ...	+1·10	**+0·96**	+1·03	+1·38	**+0·92**	+1·15	+1·60	**+0·85**	+1·22	+1·34	**+0·54**	+0·94	+1·41	**+0·70**	+1·06
10 ...	−0·37	+0·53	+0·08	−0·04	+0·79	+0·37	0·00	+0·60	+0·30	+0·22	+0·28	+0·25	+0·10	+0·57	+0·34
11 ...	−1·72	−0·28	−1·00	−1·43	+0·05	−0·69	−1·55	−0·12	−0·83	−0·84	−0·95	−0·89	−1·22	+0·02	−0·60
12 ...	**−2·39**	−0·83	**−1·61**	−2·33	−0·65	−1·49	**−2·54**	**−0·69**	**−1·62**	−1·60	**−0·57**	**−1·09**	−2·23	**−0·48**	−1·35
13 ...	−2·18	**−0·86**	−1·52	**−2·44**	**−0·68**	**−1·56**	−2·51	−0·54	−1·53	**−1·77**	−0·42	−1·09	**−2·32**	−0·42	**−1·37**
14 ...	−1·43	−0·35	−0·89	−1·83	−0·37	−1·10	−1·94	−0·19	−1·06	−1·43	−0·06	−0·74	−1·76	−0·15	−0·95
15 ...	−0·51	+0·01	−0·25	−0·98	−0·06	−0·52	−1·02	+0·08	−0·47	−0·78	+0·31	−0·24	−0·87	+0·10	−0·38
16 ...	+0·12	+0·25	+0·19	−0·15	+0·28	+0·06	−0·12	+0·25	+0·07	−0·18	+0·51	+0·17	−0·01	+0·28	+0·13
17 ...	+0·32	+0·10	+0·21	+0·26	+0·25	+0·25	+0·37	+0·08	+0·22	+0·16	+0·29	+0·23	+0·35	+0·15	+0·25
18 ...	+0·16	−0·09	+0·03	+0·24	−0·08	+0·08	+0·36	−0·06	+0·15	+0·10	−0·01	+0·04	+0·21	−0·02	+0·09
19 ...	−0·22	−0·01	−0·12	−0·08	−0·06	−0·07	−0·05	+0·01	−0·02	−0·20	−0·01	−0·11	−0·17	−0·01	−0·09
20 ...	−0·30	0·00	−0·15	−0·14	+0·03	−0·06	−0·19	+0·05	−0·07	−0·33	−0·01	−0·17	−0·24	0·00	−0·12
21 ...	−0·25	−0·01	−0·13	−0·15	0·00	−0·08	−0·18	+0·03	−0·07	−0·29	−0·02	−0·16	−0·18	+0·03	−0·07
22 ...	−0·08	−0·02	−0·05	−0·04	−0·06	−0·05	−0·07	+0·02	−0·03	−0·17	−0·03	−0·10	−0·06	+0·05	−0·01
23 ...	+0·03	+0·07	+0·05	+0·06	−0·06	0·00	0·00	+0·05	+0·03	−0·05	0·00	−0·02	+0·05	+0·06	+0·06
0 ...	+0·11	+0·14	+0·13	+0·19	+0·03	+0·11	+0·11	+0·09	+0·10	+0·03	+0·09	+0·06	+0·15	+0·08	+0·12
1 ...	+0·18	+0·10	+0·14	+0·29	+0·05	+0·17	+0·21	+0·09	+0·15	+0·11	+0·12	+0·11	+0·23	+0·08	+0·15
2 ...	+0·20	+0·08	+0·14	+0·36	+0·02	+0·19	+0·28	+0·03	+0·15	+0·21	+0·11	+0·16	+0·28	0·00	+0·14
3 ...	+0·18	0·00	+0·09	+0·37	−0·03	+0·17	+0·29	−0·07	+0·11	+0·23	+0·04	+0·13	+0·30	−0·11	+0·09
4 ...	+0·24	−0·15	+0·04	+0·40	−0·13	+0·13	+0·26	−0·19	+0·04	+0·21	−0·08	+0·06	+0·29	−0·25	+0·02
5 ...	+0·50	−0·25	+0·12	+0·49	−0·24	+0·12	+0·40	−0·32	+0·04	+0·25	−0·19	+0·03	+0·40	−0·40	0·00
Range ...	4·83	1·82	3·06	4·68	1·60	2·90	5·12	1·54	3·10	3·79	1·11	2·28	4·47	1·18	2·59

TABLE IX*a*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Vertical Force for each month of the year, and for the whole year 1906.*

Unity = 0·1γ = 0·000001 C. G. S.

1906. Bombay Civil Time.		Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H.	m.													
0	17	+ 25	+ 66	+ 64	+ 34	+ 64	+ 57	+ 16	+ 35	+ 47	+ 38	+40	+18	+ 42
1	17	+ 22	+ 62	+ 64	+ 38	+ 60	+ 49	+ 26	+ 43	+ 50	+ 38	+31	+11	+ 41
2	17	+ 18	+ 57	+ 54	+ 23	+ 59	+ 49	+ 13	+ 39	+ 50	+ 38	+28	+ 6	+ 36
3	17	+ 15	+ 48	+ 47	+ 16	+ 64	+ 43	+ 15	+ 53	+ 46	+ 32	+23	+ 1	+ 33
4	17	+ 14	+ 43	+ 48	+ 27	+ 71	+ 46	+ 30	+ 60	+ 49	+ 34	+23	+ 3	+ 37
5	17	+ 18	+ 39	+ 45	+ 42	+114	+ 58	+ 66	+103	+ 69	+ 39	+28	- 2	+ 51
6	17	+ 28	+ 47	+ 46	+105	+155	+118	+106	+164	+128	+ 79	+27	-14	+ 82
7	17	+ 49	+ 53	+116	+ 88	+111	+ 95	+ 56	+ 87	+103	+103	+38	- 6	+ 74
8	17	+100	+ 75	+122	+ 6	- 23	+ 30	- 35	- 63	- 35	+ 39	+25	+32	+ 22
9	17	+ 80	+ 53	+ 77	-102	-153	- 54	- 80	-186	-131	- 99	-37	+21	- 51
10	17	- 43	- 31	- 12	-173	-255	-134	-148	-235	-206	-188	-88	- 8	-127
11	17	-155	-102	-125	-162	-235	-155	-184	-189	-232	-202	-62	-34	-153
12	17	-156	- 84	-185	-100	-162	-130	-146	-128	-193	-113	-15	-26	-120
13	17	-132	- 46	-150	- 40	- 35	-106	- 49	- 61	- 64	- 18	+11	-10	- 58
14	17	-101	- 22	- 52	- 1	+ 6	- 54	+ 34	+ 12	+ 49	+ 26	5	-24	- 11
15	17	- 31	- 32	- 6	+ 25	+ 16	+ 1	+ 89	+ 74	+ 98	+ 49	- 7	-27	+ 21
16	17	+ 32	- 35	- 17	+ 31	+ 15	+ 31	+ 96	+ 93	+ 87	+ 21	-17	- 9	+ 27
17	17	+ 18	- 58	- 42	+ 17	+ 1	+ 19	+ 73	+ 45	+ 27	- 16	-18	- 7	+ 5
18	17	+ 15	- 31	- 39	+ 1	- 2	- 11	+ 8	- 23	- 7	- 8	- 9	+17	- 7
19	17	+ 42	- 15	- 14	- 2	- 1	- 17	- 18	- 15	- 10	+ 5	0	+19	- 2
20	17	+ 35	- 25	- 15	+ 8	+ 19	- 4	- 4	+ 1	+ 5	+ 17	+ 1	+13	+ 4
21	17	+ 23	- 22	- 16	+ 17	+ 29	+ 18	+ 11	+ 21	+ 12	+ 11	- 7	+ 7	+ 9
22	17	+ 29	- 6	- 1	+ 35	+ 43	+ 33	+ 15	+ 30	+ 26	+ 29	+10	+14	+ 22
23	17	+ 49	- 4	+ 18	+ 51	+ 49	+ 31	+ 15	+ 43	+ 35	+ 45	+ 9	+19	+ 30
24	17	+ 43	0	+ 10	+ 56	+ 49	+ 25	+ 16	+ 42	+ 37	+ 39	- 2	+14	+ 27
Range ...		256	177	307	278	410	273	290	399	360	305	128	66	235

TABLE IX*b*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Vertical Force for each month of the year, and for the whole year 1907.*

Unity = 0·1γ = 0·000001 C. G. S.

1907. Bombay Civil Time.		Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H.	m.													
23	50	- 16	+ 80	+ 45	+ 47	+ 60	+ 51	+ 42	+ 53	+ 54	+ 40	+34	+10	+ 42
0	50	- 19	+ 78	+ 47	+ 39	+ 54	+ 47	+ 52	+ 57	+ 59	+ 39	+30	+ 8	+ 41
1	50	- 20	+ 76	+ 40	+ 39	+ 54	+ 51	+ 50	+ 62	+ 61	+ 43	+26	- 5	+ 40
2	50	- 20	+ 67	+ 23	+ 22	+ 46	+ 44	+ 49	+ 54	+ 55	+ 46	+26	-13	+ 33
3	50	- 27	+ 63	+ 21	+ 27	+ 50	+ 50	+ 45	+ 53	+ 53	+ 46	+23	-12	+ 33
4	50	- 11	+ 49	+ 20	+ 38	+ 69	+ 70	+ 53	+ 58	+ 64	+ 59	+28	-14	+ 40
5	50	- 15	+ 41	+ 32	+ 82	+134	+123	+128	+108	+107	+ 87	+23	-22	+ 69
6	50	+ 8	+ 46	+ 63	+ 84	+ 98	+ 91	+121	+114	+157	+137	+27	-44	+ 75
7	50	+ 46	+ 74	+103	- 18	- 47	+ 26	+ 87	+ 42	+ 78	+ 57	+58	-13	+ 41
8	50	+ 38	+ 44	+ 87	-126	-197	- 50	+ 6	- 55	- 95	- 51	+31	- 9	- 31
9	50	- 38	- 41	+ 26	-251	-236	-151	- 91	-157	-211	-183	-47	-12	-116
10	50	-137	-129	- 66	-245	-202	-180	-139	-194	-255	-223	-74	-27	-156
11	50	-107	-166	-146	-190	-161	-148	-186	-178	-252	-152	-32	-35	-146
12	50	- 35	-117	-154	- 63	- 77	- 89	-134	-117	-155	- 46	- 1	+ 6	- 82
13	50	- 2	- 66	- 77	+ 49	- 10	- 15	- 80	- 45	- 52	+ 19	+ 7	+12	- 22
14	50	+ 55	- 30	+ 6	+114	+ 42	+ 19	- 24	- 2	+ 51	+ 56	-13	+23	+ 25
15	50	+ 87	+ 1	+ 11	+103	+ 73	+ 27	+ 8	+ 40	+ 72	+ 11	-20	+36	+ 37
16	50	+ 48	+ 1	- 24	+ 49	+ 50	+ 17	+ 27	+ 41	+ 21	- 49	-39	+26	+ 14
17	50	- 7	- 26	- 42	+ 4	+ 15	+ 3	+ 24	+ 19	- 24	- 31	-32	+15	- 7
18	50	+ 23	- 13	- 16	+ 3	- 6	- 11	- 27	- 25	+ 9	+ 15	-14	+20	- 3
19	50	+ 23	+ 1	+ 6	+ 28	+ 23	- 9	- 18	- 5	+ 28	+ 17	-11	+19	+ 8
20	50	+ 24	- 6	- 6	+ 37	+ 45	- 1	- 7	+ 15	+ 36	+ 9	-13	+14	+ 12
21	50	+ 34	- 11	- 2	+ 54	+ 56	+ 13	+ 8	+ 28	+ 53	+ 18	- 5	+ 9	+ 21
22	50	+ 43	+ 6	+ 14	+ 68	+ 64	+ 27	+ 17	+ 37	+ 70	+ 37	+ 7	+13	+ 34
23	50	+ 41	+ 17	+ 32	+ 73	+ 65	+ 29	+ 18	+ 46	+ 77	+ 42	+13	+13	+ 39
Range ...		224	246	257	365	370	303	314	308	413	360	132	80	231

TABLE IX*c*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Vertical Force for each month of the year, and for the whole year 1908.*

Unity = 0·1γ = 0·000001 C. G. S.

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 50	+ 22	− 23	+ 17	+ 8	+ 51	+ 58	+ 65	+ 30	+ 67	+ 1	+ 35	+ 20	+ 29
0 50	+ 21	− 19	+ 11	+ 7	+ 52	+ 50	+ 63	+ 37	+ 75	− 2	+ 29	+ 12	+ 28
1 50	+ 10	− 18	+ 8	+ 2	+ 51	+ 46	+ 55	+ 40	+ 69	− 1	+ 25	+ 6	+ 24
2 50	+ 9	− 22	+ 3	− 6	+ 47	+ 49	+ 50	+ 44	+ 67	− 2	+ 24	+ 2	+ 22
3 50	+ 13	− 29	− 1	− 6	+ 44	+ 47	+ 48	+ 46	+ 71	− 7	+ 22	+ 1	+ 21
4 50	+ 16	− 30	0	+ 8	+ 69	+ 65	+ 68	+ 64	+ 87	+ 2	+ 31	+ 6	+ 32
5 50	+ 21	− 35	+ 15	+ 59	+121	+123	+129	+119	+153	+ 14	+ 37	+ 16	+ 64
6 50	+ 15	− 33	+ 63	+ 98	+103	+116	+152	+100	+198	+ 47	+ 38	+ 3	+ 75
7 50	+ 83	+ 30	+ 63	+ 19	+ 30	+ 62	+ 76	+ 12	+ 71	+ 27	+ 54	+ 20	+ 46
8 50	+ 68	+ 60	+ 14	− 87	−103	− 50	− 64	−144	−121	− 68	+ 15	− 8	− 41
9 50	− 88	+ 60	− 63	−128	−191	−144	−169	−248	−243	−125	−104	− 61	−125
10 50	−187	+ 41	−139	−152	−226	−219	−221	−242	−272	−162	−140	− 55	−165
11 50	−129	+ 19	−152	−127	−184	−198	−180	−138	−239	−132	− 63	− 50	−131
12 50	− 3	+ 15	− 71	− 54	−121	−129	−110	− 33	−118	− 37	− 5	+ 9	− 55
13 50	+ 43	− 11	+ 32	+ 3	− 42	− 16	− 75	+ 9	− 20	+ 34	+ 2	+ 40	0
14 50	+ 13	− 28	+ 65	+ 47	+ 44	+ 42	+ 7	+ 86	+ 49	+ 77	− 10	+ 49	+ 37
15 50	− 10	− 27	+ 52	+ 60	+ 71	+ 67	+ 67	+114	+ 66	+ 67	− 12	+ 32	+ 45
16 50	− 8	− 40	+ 18	+ 41	+ 49	+ 48	+ 48	+ 94	+ 14	+ 15	− 16	+ 3	+ 22
17 50	+ 5	− 19	+ 8	+ 5	+ 11	+ 18	+ 13	+ 18	− 17	+ 8	+ 4	+ 11	+ 5
18 50	+ 34	+ 6	+ 4	− 9	− 8	− 35	− 23	− 23	− 17	+ 35	+ 6	+ 11	− 2
19 50	+ 24	+ 16	+ 6	+ 17	+ 11	− 17	− 12	− 8	− 7	+ 39	+ 11	+ 1	+ 7
20 50	+ 6	+ 11	+ 10	+ 38	+ 25	+ 4	+ 3	− 3	+ 7	+ 37	+ 8	− 9	+ 11
21 50	+ 8	+ 16	+ 17	+ 53	+ 44	+ 19	+ 13	+ 11	+ 20	+ 47	+ 14	− 13	+ 21
22 50	+ 13	+ 30	+ 25	+ 70	+ 56	+ 17	+ 22	+ 21	+ 39	+ 66	+ 15	− 15	+ 30
23 50	+ 14	+ 36	+ 28	+ 69	+ 55	+ 16	+ 19	+ 30	+ 52	+ 57	+ 8	− 24	+ 30
Range ...	270	100	217	250	347	342	373	367	470	239	194	110	240

TABLE IX*d*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Vertical Force for each month of the year, and for the whole year 1909.*

Unity = 0·1γ = 0·000001 C. G. S.

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 50	+ 31	− 6	− 28	+ 40	+ 53	+ 62	+ 30	+ 34	+ 45	+ 73	+ 2	+ 32	+ 30
0 50	+ 25	− 4	− 27	+ 40	+ 49	+ 62	+ 25	+ 34	+ 48	+ 68	− 7	+ 23	+ 28
1 50	+ 22	− 1	− 25	+ 35	+ 50	+ 63	+ 30	+ 35	+ 46	+ 60	− 4	+ 26	+ 28
2 50	+ 22	− 1	− 25	+ 33	+ 49	+ 59	+ 22	+ 41	+ 39	+ 54	− 7	+ 12	+ 25
3 50	+ 16	+ 5	− 22	+ 32	+ 42	+ 47	+ 17	+ 46	+ 40	+ 51	− 6	+ 16	+ 23
4 50	+ 16	+ 13	− 19	+ 38	+ 52	+ 51	+ 16	+ 61	+ 46	+ 57	+ 1	+ 20	+ 29
5 50	+ 15	+ 19	+ 1	+ 75	+ 87	+ 90	+ 64	+136	+ 89	+ 81	+ 6	+ 19	+ 57
6 50	+ 15	+ 31	+ 36	+ 84	+ 83	+112	+ 76	+118	+105	+111	+ 26	− 6	+ 66
7 50	+ 63	+ 7	+ 41	+ 9	+ 22	+ 60	+ 34	+ 4	− 3	+ 70	+ 25	+ 40	+ 31
8 50	+ 69	− 35	+ 7	− 79	− 75	− 40	− 55	−129	−163	− 46	+ 6	+ 62	− 40
9 50	+ 6	− 38	− 2	−148	−179	−134	− 77	−202	−226	−161	− 29	+ 36	− 96
10 50	− 89	− 63	− 85	−177	−182	−147	− 74	−205	−229	−179	− 21	+ 17	−119
11 50	−140	− 42	− 84	−144	−148	−133	− 57	−193	−190	−159	+ 30	+ 10	−104
12 50	− 79	+ 35	− 18	− 83	− 78	− 88	− 97	−124	− 68	− 81	+ 62	+ 2	− 51
13 50	− 51	+ 63	+ 75	− 8	− 1	− 42	− 47	− 32	+ 37	− 14	+ 53	− 6	+ 2
14 50	− 26	+ 89	+ 95	+ 34	+ 48	− 16	− 16	+ 26	+ 86	+ 15	+ 17	− 13	+ 28
15 50	+ 11	+ 44	+ 54	+ 55	+ 68	− 5	+ 22	+ 77	+ 90	+ 14	− 14	− 6	+ 34
16 50	+ 7	− 45	+ 14	+ 21	+ 49	+ 1	+ 38	+ 66	+ 42	− 29	− 57	− 9	+ 8
17 50	+ 1	− 50	− 23	− 9	+ 16	− 7	+ 29	+ 34	− 3	− 18	− 31	− 29	− 7
18 50	+ 14	− 7	− 13	− 2	− 22	− 11	− 15	+ 8	+ 5	− 7	− 13	− 25	− 7
19 50	+ 7	− 9	− 1	+ 11	− 7	− 4	− 11	+ 24	+ 17	− 1	− 15	− 29	− 1
20 50	+ 10	− 7	− 1	+ 32	+ 3	+ 2	+ 1	+ 33	+ 38	0	− 20	− 44	+ 4
21 50	+ 9	− 6	+ 12	+ 45	+ 18	+ 18	+ 16	+ 46	+ 48	+ 19	− 11	− 53	+ 14
22 50	+ 21	0	+ 21	+ 55	+ 22	+ 21	+ 28	+ 59	+ 60	+ 35	− 2	− 48	+ 23
23 50	+ 22	+ 4	+ 25	+ 58	+ 21	+ 15	+ 29	+ 62	+ 64	+ 36	+ 1	− 50	+ 24
Range ...	209	152	180	261	269	259	173	341	334	290	119	115	185

TABLE IXe.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Vertical Force for each month of the year, and for the whole year 1910.*

Unity = 0·1γ = 0·000001 C. G. S.

1910. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
23 50	− 13	+ 18	+ 33	+ 15	+ 29	+ 40	+ 29	+ 52	+ 53	+ 9	− 54	− 20	+ 16
0 50	− 18	+ 11	+ 21	+ 17	+ 24	+ 40	+ 29	+ 52	+ 51	+ 12	− 57	− 22	+ 13
1 50	− 17	+ 6	+ 18	+ 13	+ 22	+ 39	+ 29	+ 49	+ 55	+ 14	− 58	− 31	+ 12
2 50	− 14	− 2	+ 12	+ 12	+ 9	+ 35	+ 28	+ 52	+ 54	+ 9	− 57	− 33	+ 9
3 50	− 21	− 3	+ 15	+ 11	+ 20	+ 34	+ 27	+ 54	+ 56	+ 9	− 60	23	+ 10
4 50	− 18	− 6	+ 15	+ 20	+ 31	+ 50	+ 43	+ 60	+ 76	+ 11	− 50	− 18	+ 18
5 50	− 18	− 7	+ 29	+ 59	+ 87	+105	+ 85	+118	+131	+ 31	− 51	− 8	+ 47
6 10	− 7	− 6	+ 70	+ 99	+ 56	+ 87	+ 88	+116	+138	+ 82	− 22	+ 3	+ 59
7 50	+ 66	+ 14	+ 54	+ 49	− 5	+ 17	+ 70	+ 53	− 4	+ 30	+ 36	+ 54	+ 36
8 50	+102	+ 13	+ 1	− 18	−107	−128	− 16	− 46	−148	− 86	+ 16	+ 61	− 30
9 50	+ 48	− 43	− 93	−121	−174	−211	−102	−147	−269	−173	− 11	+ 24	−106
10 50	− 57	− 87	−157	−202	−181	−190	−135	−208	−279	−196	− 32	+ 9	−143
11 50	−139	− 6	−157	−209	−168	−153	−133	−177	−207	−139	+ 6	− 1	−124
12 50	− 83	+ 80	− 65	−121	− 78	− 83	− 58	−128	−109	− 40	+ 42	+ 8	− 53
13 50	− 54	+ 84	+ 37	− 32	+ 24	+ 32	− 7	− 68	+ 13	+ 42	+ 49	0	+ 10
14 50	− 31	+ 62	+ 74	+ 51	+ 73	+ 86	+ 36	+ 18	+ 88	+ 79	+ 46	+ 10	+ 49
15 50	+ 10	+ 4	+ 56	+ 80	+ 81	+ 89	+ 36	+ 43	+108	+ 59	+ 32	+ 20	+ 51
16 50	+ 14	− 54	+ 13	+ 61	+ 63	+ 51	+ 7	+ 41	+ 54	+ 6	+ 32	+ 12	+ 25
17 50	+ 23	− 34	− 23	+ 26	+ 18	+ 12	− 19	− 2	− 14	+ 6	+ 28	+ 6	+ 2
18 50	+ 37	+ 4	− 10	+ 11	+ 7	− 7	− 34	− 10	− 3	+ 22	+ 33	− 3	+ 4
19 50	+ 48	− 7	+ 6	+ 20	+ 21	+ 5	−	+ 14	+ 20	+ 34	+ 31	− 11	+ 13
20 50	+ 40	− 11	+ 8	+ 35	+ 34	+ 12	0	+ 18	+ 39	+ 35	+ 25	− 15	+ 18
21 50	+ 41	− 8	+ 17	+ 48	+ 52	+ 23	+ 10	+ 28	+ 41	+ 49	+ 26	− 19	+ 26
22 50	+ 42	− 13	+ 25	+ 56	+ 56	+ 28	+ 19	+ 31	+ 52	+ 64	+ 26	− 14	+ 31
23 50	+ 47	− 14	+ 21	+ 58	+ 53	+ 26	+ 26	+ 32	+ 47	+ 64	+ 17	− 19	+ 30
Range ...	241	171	231	308	268	316	223	326	417	278	109	94	202

TABLE IX*f*.—*Showing for the quiet days selected by the Astronomer Royal, the mean diurnal inequality of Vertical Force for summer months (April to September), winter months (January to March and October to December), and the whole year, for each of the years 1906 to 1910.*

Unity = 0·1γ = 0·000001 C. G. S.

Bombay Civil Hours.	1906.			1907.			1908.			1909.			1910.		
	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.
0 ...	+ 42	+ 42	+ 42	+ 51	+ 32	+ 42	+ 46	+ 12	+ 29	+ 44	+ 17	+ 30	+ 36	− 4	+ 16
1 ...	+ 44	+ 38	+ 41	+ 51	+ 30	+ 41	+ 47	+ 9	+ 28	+ 43	+ 13	+ 28	+ 35	− 9	+ 13
2 ...	+ 39	+ 33	+ 36	+ 53	+ 27	+ 40	+ 44	+ 5	+ 24	+ 43	+ 13	+ 28	+ 34	− 11	+ 12
3 ...	+ 39	+ 28	+ 33	+ 45	+ 21	+ 33	+ 42	+ 2	+ 22	+ 40	+ 9	+ 25	+ 32	− 14	+ 9
4 ...	+ 47	+ 27	+ 37	+ 46	+ 19	+ 33	+ 42	0	+ 21	+ 37	+ 10	+ 23	+ 34	− 14	+ 10
5 ...	+ 75	+ 28	+ 51	+ 59	+ 22	+ 40	+ 60	+ 4	+ 32	+ 44	+ 15	+ 29	+ 47	− 11	+ 18
6 ...	**+129**	+ 35	**+ 82**	**+114**	+ 24	+ 69	+117	+ 11	+ 64	+ 91	+ 23	+ 57	**+ 97**	− 4	+ 47
7 ...	+ 90	+ 59	+ 74	+111	+ 39	**+ 75**	**+128**	+ 22	**+ 75**	**+ 96**	+ 35	**+ 66**	+ 97	+ 20	**+ 59**
8 ...	− 20	**+ 65**	+ 22	+ 28	**+ 54**	+ 41	+ 45	**+ 46**	+ 46	+ 21	**+ 41**	+ 31	+ 30	**+ 42**	+ 36
9 ...	−118	+ 16	− 51	− 86	+ 23	− 31	− 95	+ 13	− 41	− 91	+ 10	− 40	− 77	+ 18	− 30
10 ...	−192	− 62	−127	−183	− 49	−116	−187	− 63	−125	−161	− 31	− 96	−171	− 41	−106
11 ...	**−193**	**−113**	**−153**	**−202**	**−109**	**−156**	**−222**	**−107**	**−165**	**−169**	**− 70**	**−119**	**−199**	**− 87**	**−143**
12 ...	−143	− 96	−120	−186	−106	−146	−178	− 84	−131	−144	− 64	−104	−174	− 73	−124
13 ...	− 59	− 57	− 58	−106	− 58	− 82	− 94	− 15	− 55	− 89	− 13	− 51	− 96	− 10	− 53
14 ...	+ 8	− 30	− 11	− 25	− 18	− 22	− 23	+ 23	0	− 15	+ 20	+ 2	− 6	+ 26	+ 10
15 ...	+ 50	− 9	+ 21	+ 33	+ 16	+ 25	+ 46	+ 28	+ 37	+ 27	+ 29	+ 28	+ 59	+ 40	+ 49
16 ...	+ 59	− 4	+ 27	+ 54	+ 21	+ 37	+ 74	+ 17	+ 45	+ 51	+ 17	+ 34	+ 73	+ 30	+ 51
17 ...	+ 30	− 20	+ 5	+ 34	− 6	+ 14	+ 49	− 5	+ 22	+ 36	− 20	+ 8	+ 46	+ 4	+ 25
18 ...	− 6	− 9	− 7	+ 7	− 20	− 7	+ 8	+ 3	+ 5	+ 10	− 25	− 7	+ 3	+ 1	+ 2
19 ...	− 10	+ 6	− 2	− 9	+ 2	− 3	− 19	+ 16	− 2	− 6	− 8	− 7	− 6	+ 14	+ 4
20 ...	+ 4	+ 3	+ 4	+ 8	+ 9	+ 8	− 3	+ 16	+ 7	+ 5	− 8	− 1	+ 10	+ 17	+ 13
21 ...	+ 18	− 1	+ 9	+ 21	+ 4	+ 12	+ 12	+ 10	+ 11	+ 18	− 10	+ 4	+ 23	+ 14	+ 18
22 ...	+ 30	+ 12	+ 22	+ 35	+ 7	+ 21	+ 27	+ 15	+ 21	+ 32	− 5	+ 14	+ 34	+ 18	+ 26
23 ...	+ 37	+ 23	+ 30	+ 47	+ 20	+ 34	+ 37	+ 22	+ 30	+ 41	+ 4	+ 23	+ 40	+ 22	+ 31
24 ...	+ 37	+ 17	+ 27	+ 51	+ 26	+ 39	+ 40	+ 20	+ 30	+ 42	+ 6	+ 24	+ 40	+ 19	+ 30
Range ...	322	178	235	316	163	231	350	153	240	265	111	185	296	129	202

TABLE Xa.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Vertical Force for each month of the year, and for the whole year 1906.*

Unity = 0·1γ = 0·000001 C. G. S.

1906. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
5 17	+ 5	+ 51	+ 44	+ 46	+ 91	+124	+ 89	+ 90	+ 81	+ 48	+ 27	− 29	+ 55
6 17	+ 13	+ 48	+ 52	+113	+135	+172	+152	+150	+144	+ 86	+ 5	− 35	+ 86
7 17	+ 43	+ 70	+133	+ 89	+ 88	+152	+120	+ 98	+120	+ 78	+ 23	− 28	+ 82
8 17	+ 80	+ 98	+124	− 12	− 43	+ 95	+ 28	− 55	− 9	− 41	− 3	+ 15	+ 25
9 17	+ 15	+ 60	+ 63	−113	−187	− 1	− 31	−179	− 81	−122	− 42	+ 12	− 51
10 17	− 75	− 36	− 38	−166	−247	−131	−139	−222	−187	−222	−116	− 2	−132
11 17	−118	− 85	−134	−168	−253	−160	−190	−179	−232	−235	− 98	− 53	−158
12 17	− 98	− 67	−182	−114	−153	−142	−152	−126	−199	−164	− 28	− 59	−124
13 17	− 58	− 36	−115	− 45	− 27	− 99	− 96	− 75	− 69	− 38	+ 10	− 19	− 56
14 17	− 48	− 1	+ 6	+ 12	+ 12	− 13	− 41	− 1	+ 45	+ 69	+ 12	− 9	+ 4
15 17	− 24	+ 6	+ 38	+ 41	+ 26	+ 3	+ 47	+ 61	+ 95	+ 99	− 22	− 19	+ 29
16 17	+ 4	− 10	+ 6	+ 31	+ 30	− 6	+ 74	+ 84	+ 92	+ 62	− 7	+ 1	+ 30
17 17	0	− 45	− 41	+ 7	+ 10	− 1	+ 59	+ 41	+ 29	+ 2	− 4	+ 9	+ 5
18 17	+ 4	− 17	− 53	− 15	+ 10	− 8	+ 16	− 20	− 10	− 7	+ 16	+ 20	− 5
19 17	+ 34	+ 5	− 15	− 15	+ 11	− 17	− 21	− 11	− 20	+ 8	+ 22	+ 28	+ 1
20 17	+ 18	− 4	− 6	+ 1	+ 26	− 5	− 8	+ 5	− 7	+ 20	+ 23	+ 22	+ 7
21 17	+ 11	+ 4	− 8	+ 12	+ 44	+ 9	+ 9	+ 27	+ 5	+ 18	+ 20	+ 21	+ 14
22 17	+ 26	+ 14	+ 9	+ 26	+ 54	+ 14	+ 16	+ 36	+ 21	+ 36	+ 25	+ 24	+ 25
23 17	+ 37	+ 13	+ 32	+ 45	+ 57	+ 20	+ 17	+ 47	+ 29	+ 48	+ 29	+ 25	+ 33
0 17	+ 33	+ 14	+ 26	+ 46	+ 63	+ 17	+ 11	+ 45	+ 34	+ 50	+ 26	+ 19	+ 32
1 17	+ 33	+ 6	+ 29	+ 46	+ 58	+ 13	+ 17	+ 42	+ 35	+ 52	+ 29	+ 13	+ 30
2 17	+ 27	− 3	+ 17	+ 39	+ 61	+ 15	+ 12	+ 39	+ 35	+ 51	+ 23	+ 12	+ 27
3 17	+ 21	− 17	+ 15	+ 31	+ 62	+ 2	+ 13	+ 42	+ 28	+ 44	+ 18	+ 6	+ 22
4 17	+ 21	− 21	+ 15	+ 48	+ 74	+ 6	+ 24	+ 54	+ 33	+ 44	+ 17	+ 2	+ 26
5 17	+ 22	− 27	− 22	+ 63	+110	+ 28	+ 56	+108	+ 58	+ 54	+ 19	+ 3	+ 39
Range ...	198	183	315	281	388	332	312	372	376	334	145	85	245

TABLE Xb.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Vertical Force for each month of the year, and for the whole year 1907.*

Unity = 0·1γ = 0·000001 C. G. S.

1907. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 50	− 3	+ 61	+ 24	+ 3	+ 64	+ 78	+ 40	+ 55	+ 63	+ 37	+ 43	− 40	+ 35
5 50	+ 7	+ 53	+ 41	+ 37	+126	+125	+104	+108	+119	+ 73	+ 35	− 42	+ 65
6 50	+ 20	+ 58	+ 94	+ 48	+ 87	+ 89	+104	+102	+144	+110	+ 30	− 52	+ 69
7 50	+ 32	+ 86	+105	− 43	− 52	+ 24	+ 48	+ 17	+ 13	+ 39	+ 70	0	+ 28
8 50	+ 17	+ 56	+ 75	−128	−196	62	− 20	− 71	−175	− 50	+ 46	+ 13	− 41
9 50	−104	− 29	+ 25	−211	−238	−160	−118	−164	−259	−180	− 21	+ 11	−121
10 50	−203	−117	− 88	−221	−216	−173	−158	−199	−291	−223	− 41	− 4	−161
11 50	−140	−154	−157	−187	−161	−138	−188	−181	−250	−170	+ 3	− 18	−145
12 50	− 16	−105	−148	− 82	− 78	− 65	−120	−100	−139	− 53	+ 32	+ 1	− 73
13 50	+ 63	− 54	− 70	+ 11	− 2	+ 20	− 55	− 25	− 18	+ 23	+ 20	− 31	− 10
14 50	+111	− 18	+ 19	+ 78	+ 89	+ 55	0	+ 7	+ 83	+ 48	− 9	− 42	+ 31
15 50	+107	+ 13	+ 9	+ 65	+ 80	+ 50	+ 30	+ 54	+ 85	+ 18	− 21	− 7	+ 40
16 50	+ 34	+ 13	− 30	+ 32	+ 57	+ 18	+ 51	+ 52	+ 17	− 41	− 43	+ 24	+ 15
17 50	− 31	− 14	− 47	+ 7	+ 22	− 2	+ 52	+ 19	− 23	− 24	− 40	+ 20	− 5
18 50	+ 2	− 1	− 13	+ 10	− 2	− 13	− 7	− 18	+ 9	+ 16	− 26	+ 24	− 2
19 50	+ 3	+ 13	+ 10	+ 34	+ 27	− 8	− 7	− 4	+ 30	+ 18	− 17	+ 22	+ 10
20 50	− 6	+ 6	0	+ 40	+ 45	+ 2	+ 6	+ 14	+ 36	+ 17	− 20	+ 12	+ 13
21 50	+ 8	+ 1	+ 5	+ 59	+ 57	+ 11	+ 23	+ 29	+ 60	+ 28	− 16	+ 10	+ 23
22 50	+ 19	+ 18	+ 22	+ 74	+ 64	+ 25	+ 39	+ 38	+ 71	+ 48	− 3	+ 16	+ 36
23 50	+ 17	+ 29	+ 33	+ 79	+ 64	+ 27	+ 30	+ 48	+ 79	+ 53	+ 4	+ 19	+ 40
0 50	+ 17	+ 31	+ 39	+ 77	+ 59	+ 24	+ 40	+ 51	+ 85	+ 48	+ 3	+ 16	+ 41
1 50	+ 17	+ 28	+ 31	+ 73	+ 56	+ 24	+ 39	+ 53	+ 79	+ 53	+ 2	+ 8	+ 39
2 50	− 20	+ 25	+ 15	+ 58	+ 53	+ 27	+ 40	+ 51	+ 81	+ 52	0	+ 6	+ 32
3 50	+ 24	+ 18	+ 8	+ 58	+ 51	+ 29	+ 35	+ 52	+ 81	+ 56	0	+ 10	+ 35
4 50	+ 34	+ 10	+ 19	+ 60	+ 66	+ 47	+ 47	+ 59	+ 96	+ 68	+ 3	+ 13	+ 43
Range ...	314	240	262	300	364	298	292	307	435	333	113	76	230

TABLE Xc.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Vertical Force for each month of the year, and for the whole year 1908.*

Unity = 0·1γ = 0·000001 C. G. S.

1908. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 50	− 18	− 34	+ 1	+ 5	+ 56	+ 91	+ 85	+ 65	+ 91	+ 7	+ 8	+ 14	+ 31
5 50	− 5	− 42	+ 15	+ 58	+111	+139	+151	+128	+157	+ 22	+ 20	+ 24	+ 65
6 50	− 14	− 40	+ 65	+ 75	+105	+123	+157	+115	+202	+ 38	+ 25	+ 11	+ 72
7 50	+ 50	+ 34	+ 58	− 35	+ 27	+ 44	+ 74	+ 6	+ 75	+ 8	+ 22	+ 28	+ 33
8 50	+ 57	+ 62	+ 1	−105	−120	− 74	− 29	−174	−118	− 80	− 30	0	− 51
9 50	− 17	+ 45	− 70	−151	−221	−158	−118	−265	−239	−140	−128	− 52	−126
10 50	−100	+ 10	−145	−193	−244	−224	−184	−257	−269	−160	−155	− 47	−164
11 50	− 99	− 23	−150	−149	−173	−206	−154	−129	−235	−123	− 67	− 42	−129
12 50	− 19	− 48	− 58	− 47	− 94	−112	− 92	+ 1	−114	− 27	− 2	+ 18	− 49
13 50	+ 6	− 30	+ 47	+ 1	− 19	+ 14	− 47	+ 32	− 16	+ 28	+ 34	+ 49	+ 8
14 50	− 5	− 56	+ 86	+ 36	+ 61	+ 77	+ 5	+ 77	+ 53	+ 48	+ 23	+ 57	+ 38
15 50	+ 3	− 53	+ 72	+ 44	+ 97	+ 75	+ 55	+101	+ 70	+ 41	+ 15	+ 40	+ 47
16 50	− 3	− 49	+ 27	+ 15	+ 72	+ 50	+ 48	+ 90	+ 18	− 10	− 8	+ 11	+ 22
17 50	+ 5	− 28	+ 2	− 8	+ 13	+ 26	+ 14	+ 24	− 13	− 12	+ 10	+ 20	+ 4
18 50	+ 33	+ 3	0	− 11	− 12	− 8	− 20	− 12	− 13	+ 20	+ 21	+ 20	+ 2
19 50	+ 26	+ 13	− 1	+ 6	+ 5	+ 5	− 7	− 2	− 3	+ 21	+ 22	+ 9	+ 8
20 50	+ 13	+ 7	+ 3	+ 24	+ 13	+ 19	+ 8	+ 2	+ 11	+ 21	+ 19	− 1	+ 12
21 50	+ 11	+ 10	+ 7	+ 41	+ 32	+ 24	+ 16	− 3	+ 23	+ 27	+ 27	− 5	+ 17
22 50	+ 18	+ 29	+ 14	+ 54	+ 41	+ 23	+ 16	+ 24	+ 43	+ 53	+ 30	− 7	+ 28
23 50	+ 17	+ 37	+ 14	+ 62	+ 52	+ 23	+ 14	+ 27	+ 56	+ 43	+ 24	− 16	+ 29
0 50	+ 14	+ 38	+ 5	+ 61	+ 48	+ 22	+ 15	+ 34	+ 58	+ 41	+ 23	− 17	+ 28
1 50	+ 5	+ 35	+ 6	+ 58	+ 51	+ 19	+ 14	+ 36	+ 59	+ 41	+ 21	− 28	+ 26
2 50	0	+ 29	− 1	+ 57	+ 46	+ 18	+ 8	+ 37	+ 56	+ 38	+ 21	− 30	+ 23
3 50	+ 2	+ 22	− 3	+ 61	+ 45	+ 20	+ 8	+ 42	+ 64	+ 35	+ 21	− 33	+ 24
4 50	+ 4	+ 17	− 6	+ 77	+ 73	+ 37	+ 23	+ 55	+ 77	+ 38	+ 29	− 29	+ 33
Range ...	157	118	236	270	355	363	341	393	471	213	189	109	236

TABLE Xd.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Vertical Force for each month of the year, and for the whole year 1909.*

Unity = 0·1γ = 0·000001 C. G. S.

1909. Bombay Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 50	− 18	− 31	− 20	+ 34	+ 90	+ 27	+ 53	+ 60	+ 31	+ 45	− 7	+ 33	+ 25
5 50	− 15	− 16	− 7	+ 71	+145	+ 70	+ 94	+135	+ 76	+ 70	+ 1	+ 33	+ 55
6 50	− 15	− 4	+ 28	+ 81	+135	+ 86	+ 93	+115	+ 96	+101	+ 27	+ 24	+ 64
7 50	+ 19	− 41	+ 24	+ 6	+ 39	+ 48	+ 68	− 28	− 14	+ 71	+ 29	+ 51	+ 23
8 50	+ 15	− 78	− 7	− 83	− 89	− 37	+ 2	−142	−190	− 43	+ 7	+ 60	− 49
9 50	− 35	− 70	− 9	−152	−198	−106	− 52	−224	−245	−147	− 36	+ 19	−105
10 50	−106	− 79	− 77	−181	−195	−130	− 95	−219	−236	−164	− 38	+ 8	−126
11 50	−126	− 39	− 83	−148	−167	−135	−103	−157	−189	−162	+ 17	+ 22	−106
12 50	− 73	+ 45	− 19	− 86	− 86	− 72	−125	− 79	− 48	− 75	+ 58	+ 29	− 44
13 50	− 46	+105	+ 57	− 12	+ 2	− 30	− 84	− 16	+ 68	− 1	+ 50	+ 4	+ 8
14 50	− 13	+136	+ 62	+ 31	+ 36	+ 3	− 9	+ 24	+114	+ 23	+ 9	− 13	+ 34
15 50	+ 21	+ 93	+ 31	+ 51	+ 60	+ 26	+ 48	+ 63	+107	+ 16	− 23	+ 3	+ 41
16 50	+ 15	− 11	− 7	+ 18	+ 55	+ 21	+ 46	+ 53	+ 43	− 29	− 68	+ 7	+ 12
17 50	+ 6	− 53	− 39	− 13	+ 23	+ 5	+ 19	+ 21	− 23	− 13	−41	− 8	− 10
18 50	+ 28	− 19	− 31	− 6	− 10	− 5	− 17	+ 9	− 5	+ 3	− 18	− 4	− 6
19 50	+ 24	− 14	− 20	+ 7	− 6	+ 9	− 13	+ 19	+ 8	+ 10	− 19	− 7	0
20 50	+ 27	− 17	− 14	+ 28	+ 13	+ 16	+ 3	+ 29	+ 30	+ 10	− 24	− 18	+ 7
21 50	+ 32	− 8	− 3	+ 42	+ 25	+ 31	+ 18	+ 41	+ 39	+ 26	− 11	− 23	+ 17
22 50	+ 40	+ 2	+ 9	+ 51	+ 27	+ 35	+ 20	+ 46	+ 52	+ 42	+ 3	− 21	+ 25
23 50	+ 39	+ 8	+ 20	+ 55	+ 31	+ 31	+ 19	+ 49	+ 58	+ 47	+ 8	− 21	+ 29
0 50	+ 38	+ 13	+ 21	+ 53	+ 26	+ 28	+ 13	+ 48	+ 61	+ 47	+ 10	− 32	+ 27
1 50	+ 39	+ 19	+ 22	+ 51	+ 25	+ 32	+ 12	+ 50	+ 58	+ 46	+ 11	− 34	+ 28
2 50	+ 41	+ 18	+ 20	+ 47	+ 21	+ 23	+ 8	+ 48	+ 53	+ 38	+ 15	− 34	+ 25
3 50	+ 38	+ 23	+ 23	+ 45	+ 17	+ 19	+ 6	+ 53	+ 52	+ 36	+ 18	− 42	+ 24
4 50	+ 39	+ 30	+ 27	+ 49	+ 25	+ 26	+ 12	+ 67	+ 59	+ 47	+ 24	− 44	+ 30
Range ...	167	215	145	262	343	221	219	359	359	265	126	104	190

TABLE Xe.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Vertical Force for each month of the year, and for the whole year 1910.*

Unity = 0·1γ = 0·000001 C. G. S.

1910. Bombay Civil Time.	Month. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
H. m.													
4 50	− 15	− 18	+ 16	+ 13	+ 24	+ 73	+ 4	+ 86	+101	+ 4	− 66	− 11	+ 18
5 50	− 18	− 17	+ 30	+ 51	+ 80	+115	+ 54	+138	+158	+ 31	− 67	0	+ 46
6 50	− 12	− 18	+ 71	+ 85	+ 50	+125	+ 56	+133	+162	+ 78	− 38	+ 4	+ 58
7 50	+ 61	+ 17	+ 55	+ 42	− 11	+ 93	+ 7	+ 61	+ 20	+ 33	+ 20	+ 59	+ 38
8 50	+ 97	+ 26	+ 2	− 24	−115	− 24	− 86	− 66	−126	− 64	0	+ 66	− 26
9 50	+ 23	− 4	− 92	−146	−180	−150	−167	−172	−270	−156	− 27	+ 33	−109
10 50	− 74	− 23	−156	−237	−188	−182	−184	−234	−281	−186	− 48	+ 30	−147
11 50	−143	+ 25	−156	−225	−175	−169	−123	−197	−239	−136	− 10	+ 32	−126
12 50	−107	+ 70	− 64	−125	− 85	−110	− 77	−117	−148	− 30	+ 26	+ 14	− 63
13 50	− 88	+ 59	+ 38	− 31	+ 18	0	− 22	− 51	− 30	+ 48	+ 33	− 11	− 3
14 50	− 64	+ 36	+ 75	+ 46	+ 66	+ 45	+ 15	+ 12	+ 64	+ 76	+ 31	− 6	+ 33
15 50	− 14	− 4	+ 57	+ 84	+ 75	+ 51	+ 42	+ 43	+ 94	+ 50	+ 16	+ 7	+ 42
16 50	− 3	− 36	+ 14	+ 62	+ 56	+ 10	+ 26	+ 45	+ 55	− 16	+ 16	+ 3	+ 19
17 50	+ 10	− 10	− 22	+ 19	+ 11	− 11	+ 11	+ 7	− 5	− 15	+ 12	0	+ 2
18 50	+ 18	+ 11	− 9	− 2	+ 1	− 15	0	− 3	+ 2	+ 6	+ 18	− 3	+ 2
19 50	+ 29	+ 4	+ 6	+ 9	+ 15	− 1	+ 15	+ 21	+ 22	+ 16	+ 15	− 11	+ 12
20 50	+ 24	− 3	+ 9	+ 24	+ 27	+ 8	+ 35	+ 25	+ 39	+ 13	+ 9	− 14	+ 16
21 50	+ 25	− 6	+ 18	+ 38	+ 46	+ 20	+ 46	+ 36	+ 44	+ 25	+ 10	− 21	+ 23
22 50	+ 26	− 10	+ 26	+ 47	+ 50	+ 23	+ 52	+ 42	+ 54	+ 35	+ 10	− 16	+ 28
23 50	+ 33	− 10	+ 22	+ 53	+ 47	+ 29	+ 55	+ 43	+ 53	+ 31	+ 1	− 22	+ 28
0 50	+ 37	− 10	+ 26	+ 52	+ 41	+ 25	+ 54	+ 40	+ 56	+ 35	− 1	− 23	+ 28
1 50	+ 40	− 18	+ 19	+ 51	+ 45	+ 22	+ 57	+ 38	+ 58	+ 35	− 3	− 31	+ 26
2 50	+ 37	− 20	+ 8	+ 48	+ 45	+ 23	+ 55	+ 41	+ 59	+ 31	+ 4	− 33	+ 25
3 50	+ 37	− 24	+ 11	+ 44	+ 46	+ 23	+ 53	+ 39	+ 61	+ 27	+ 4	− 34	+ 24
4 50	+ 48	− 30	+ 16	+ 46	+ 57	+ 41	+ 71	+ 52	+ 74	+ 38	+ 15	− 28	+ 33
Range ...	240	106	231	322	268	307	255	372	443	264	100	100	205

TABLE X*f*.—*Showing for the quiet days selected by the International Commission of Terrestrial Magnetism, the mean diurnal inequality of Vertical Force for summer months (April to September), winter months (January to March and October to December), and the whole year, for each of the years 1906 to 1910.*

Unity = 0·1γ = 0·000001 C. G. S.

Bombay Civil Hours.	1906.			1907.			1908.			1909.			1910.		
	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.	April to September.	October to March.	Year.
5 ...	+ 87	+ 24	+ 55	+ 50	+ 20	+ 35	+ 65	− 4	+ 31	+ 49	0	+ 25	+ 50	− 15	+ 18
6 ...	**+144**	+ 28	**+ 86**	**+103**	+ 28	+ 65	+124	+ 6	+ 65	+ 98	+ 11	+ 55	+ 99	− 7	+ 46
7 ...	+111	**+ 53**	+ 82	+ 96	+ 43	**+ 69**	**+129**	+ 14	**+ 72**	**+101**	+ 27	**+ 64**	**+102**	+ 14	**+ 58**
8 ...	+ 1	+ 45	+ 23	+ 1	**+ 55**	+ 28	+ 32	**+ 33**	+ 33	+ 20	+ 25	+ 23	+ 35	**+ 41**	+ 38
9 ...	− 99	− 2	− 51	−109	+ 26	− 41	−103	+ 2	− 51	− 90	− 8	− 49	− 73	+ 21	− 26
10 ...	−182	− 81	−132	−192	− 50	−121	−192	− 60	−126	−163	− 46	−105	−181	− 37	−109
11 ...	**−197**	**−120**	**−159**	**−210**	**−113**	**−161**	**−228**	**− 99**	**−164**	**−176**	**− 76**	**−126**	**−218**	**− 76**	**−147**
12 ...	−148	−100	−124	−184	−106	−145	−174	− 84	−129	−150	− 62	−106	−188	− 65	−126
13 ...	− 68	− 43	− 56	− 97	− 48	− 73	− 76	− 23	− 49	− 83	− 6	− 44	−110	− 15	− 63
14 ...	+ 2	+ 5	+ 4	− 11	− 8	− 10	− 6	+ 22	+ 8	− 12	+ 28	+ 8	− 20	+ 13	− 3
15 ...	+ 45	+ 13	+ 29	+ 44	+ 18	+ 31	+ 51	+ 25	+ 38	+ 33	**+ 34**	+ 34	+ 41	+ 25	+ 33
16 ...	+ 51	+ 9	+ 30	+ 61	+ 20	+ 40	+ 74	+ 20	+ 47	+ 59	+ 23	+ 41	+ 65	+ 19	+ 42
17 ...	+ 24	− 13	+ 5	+ 38	− 7	+ 15	+ 49	− 5	+ 22	+ 39	− 15	+ 12	+ 42	− 4	+ 19
18 ...	− 4	− 6	− 5	+ 12	− 23	− 5	+ 9	0	+ 4	+ 5	− 25	− 10	+ 5	− 4	+ 1
19 ...	− 12	+ 13	+ 1	− 3	0	− 2	− 13	+ 16	+ 2	− 6	− 7	− 6	− 3	+ 7	+ 2
20 ...	+ 2	+ 12	+ 7	+ 12	+ 8	+ 10	+ 1	+ 15	+ 8	+ 4	− 4	0	+ 13	+ 10	+ 12
21 ...	+ 18	+ 11	+ 14	+ 24	+ 1	+ 13	+ 13	+ 10	+ 12	+ 20	− 6	+ 7	+ 26	+ 6	+ 16
22 ...	+ 28	+ 22	+ 25	+ 40	+ 6	+ 23	+ 22	+ 13	+ 17	+ 33	+ 2	+ 17	+ 38	+ 8	+ 23
23 ...	+ 36	+ 31	+ 33	+ 52	+ 20	+ 36	+ 33	+ 23	+ 28	+ 38	+ 12	+ 25	+ 45	+ 12	+ 28
0 ...	+ 36	+ 28	+ 32	+ 54	+ 26	+ 40	+ 39	+ 20	+ 29	+ 40	+ 17	+ 29	+ 47	+ 9	+ 28
1 ...	+ 35	+ 27	+ 31	+ 56	+ 26	+ 41	+ 40	+ 17	+ 28	+ 38	+ 16	+ 27	+ 45	+ 11	+ 28
2 ...	+ 33	+ 21	+ 27	+ 54	+ 23	+ 39	+ 39	+ 13	+ 26	+ 38	+ 17	+ 28	+ 45	+ 7	+ 26
3 ...	+ 30	+ 14	+ 22	+ 52	+ 13	+ 32	+ 37	+ 9	+ 23	+ 33	+ 16	+ 25	+ 45	+ 4	+ 25
4 ...	+ 40	+ 13	+ 26	+ 51	+ 19	+ 35	+ 40	+ 7	+ 24	+ 32	+ 16	+ 24	+ 44	+ 3	+ 24
5 ...	+ 70	+ 8	+ 39	+ 62	+ 24	+ 43	+ 57	+ 9	+ 33	+ 40	+ 20	+ 30	+ 57	+ 10	+ 33
Range ...	341	173	245	313	168	230	357	132	236	277	110	190	320	117	205

APPENDIX B.

COMPARISON OF THE RESULTS DERIVED FROM THE REGISTRATIONS OF THE DINES' PRESSURE TUBE ANEMOMETER AND THE ROBINSON-BECKLEY'S ANEMOGRAPH DURING THE PERIOD 1898 TO 1911.

A description of these instruments and of the methods of reduction, is given in the introduction, pages viii to xi. A preliminary discussion of the comparison of the velocities registered by the two instruments is also given in Appendix C, pages [15] to [19] of Volume XXXV of the Bombay magnetical and meteorogical observations for the year 1896. The following tables have been prepared with a view to ascertain how far the conclusions arrived at in 1898, have been confirmed by the data which have subsequently accumulated and how far one instrument can be relied upon to indicate with accuracy the results of the other throughout the period 1898 to 1911.

Table I gives the monthly mean velocities by the two instruments together with the factors derived from these velocities, for the conversion of the run of the cups of the Robinson-Beckley's Anemograph to the run of the wind. These factors are obtained, as is usually done, by taking three times the average velocity by Dines' and dividing the result by the average velocity given by the Robinson-Beckley's Anemograph. As however the factors so calculated from the average velocities do not agree strictly with those derived by averaging the factors themselves determined from the individual daily mean and the hourly mean velocities in each month, the latter also have been calculated and collected in table II.

A glance at the annual variations in these tables shows that in the seasonal progression, the factors bear an inverse relation to the progression of the velocities, higher velocities connoting slightly lower factors. The factor varies from 2·1 in March and April to 2·0 in June and July, showing on an average a fluctuation of about 5 per cent. The annual mean values however show a somewhat larger percentage of fluctuation.

In October 1907 the old Robinson-Beckley's Anemograph was dismounted and a similar new instrument by R. W. Munro was installed in its place. It will be seen that the factor indicated by the new instrument is lower than that of the older one. Thus while the mean factor for the period 1898 to 1906 is 2·12, that for the later period 1908 to 1911 stands at 1·98, showing a difference in the velocities indicated by the two instruments equivalent to about 7 per cent. of the whole (*vide* Introduction, page x also).

Tables III and IV present in a different form the value of the factors as they vary for different velocities. It will be seen that while the results for each month are not strictly in agreement indicating any definite relation, the averages derived from table III and collected in table IV do indicate that higher factors prevail for lower velocities and *vice versâ*. Thus the factor varies from 2·13 for velocities of 1 to 5 miles to 2·01 for velocities of 21 miles and above. Table V gives for the average months and groups of months the hourly velocities by Beckley's Anemograph, while table VI gives similar velocities by Dines'. Table VII gives factors determined from these velocities and table VIII gives similar factors derived by averaging the factors calculated from the mean hourly velocities for each month. Tables IX and X serve to indicate how far the diurnal and annual changes in the direction of the wind affect the steadiness of the factor. Table IX gives the monthly means of the north and east components of the wind, while table X gives the hourly means for the average months. The corresponding factors given in table VII or VIII show that during the monsoon months when the wind is constantly blowing from a fixed direction, namely, west-south-west, the factor is lower, while during the winter months when there is a regular movement of the land and sea breezes and during the intermediate months March to May when the character of the wind, as it passes through the transitional stage, is more or less fitful and irregular, the factors stand higher.

It will thus be seen from the examination of the tables that broadly speaking higher velocities, steady intensity and constant direction are associated with a slightly lower factor, while low velocities and winds of varying intensity and direction contribute to a somewhat higher factor.

TABLE I.—*Showing the mean Velocity of the Wind, in miles per hour, derived from Robinson-Beckley's Anemograph and the Dines' Anemograph, for each month, for groups of months, and the year, during the period 1898 to 1911; also the mean factors derived from these velocities for the conversion of the run of the cups of the Robinson-Beckley's Anemograph to the run of the wind.*

Years.	Months.												Means.			
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	October to February.	March to May.	June to September.	Year.
Mean Velocities: Robinson-Beckley's Anemograph.																
1898 ...	9·3	10·1	10·1	9·2	9·2	14·0	16·2	15·4	9·0	7·6	8·7	9·6	9·1	9·5	13·6	10·7
1899 ...	9·5	9·1	10·3	8·4	9·4	12·7	15·7	11·1	8·9	6·8	8·1	7·7	8·2	9·4	12·1	9·8
1900 ...	9·3	9·5	9·0	8·8	8·9	11·4	15·0	16·6	10·9	8·0	8·3	8·1	8·6	8·9	13·5	10·3
1901 ...	9·6	10·7	8·6	8·9	8·9	12·1	16·1	15·9	9·5	8·0	8·5	8·4	9·0	8·8	13·4	10·4
1902 ...	8·9	8·8	8·6	8·6	8·7	13·2	15·3	11·5	9·2	8·0	9·4	9·9	9·0	8·6	12·3	10·0
1903 ...	9·1	10·2	10·2	9·3	10·1	11·0	16·0	12·6	9·1	8·3	8·4	9·0	9·0	9·9	12·2	10·3
1904 ...	8·9	8·4	10·7	9·0	7·7	13·6	15·9	13·8	10·8	7·5	8·2	9·2	8·4	9·1	13·5	10·3
1905 ...	9·7	10·8	10·3	8·5	7·9	9·6	15·1	11·8	8·0	7·6	9·1	9·2	9·3	8·9	11·1	9·8
1906 ...	9·1	9·9	9·7	10·2	7·9	11·2	13·7	10·6	9·8	7·6	6·9	8·4	8·4	9·3	11·3	9·6
1907 ...	8·0	10·3	9·3	9·2	8·8	13·5	11·9	17·0	9·2	6·9	8·2	9·2	8·5	9·1	12·9	10·1
1908 ...	8·4	10·0	10·1	9·2	8·3	11·0	16·8	15·4	7·3	7·4	7·9	9·1	8·6	9·2	12·6	10·1
1909 ...	9·5	8·8	9·0	8·7	9·4	12·7	17·1	9·9	7·9	7·5	7·5	8·1	8·3	9·0	11·9	9·7
1910 ...	8·5	8·7	9·4	10·1	9·2	12·7	11·7	13·2	8·8	8·3	8·7	7·6	8·4	9·6	11·6	9·7
1911 ...	8·3	9·1	9·9	10·1	8·1	11·9	12·8	14·8	9·4	7·2	7·3	8·1	8·0	9·4	12·2	9·7
Means, 1898 to 1911 ...	9·0	9·6	9·7	9·2	8·7	12·2	14·9	13·5	9·1	7·6	8·2	8·7	8·6	9·2	12·4	10·0
Mean Velocities: Dines' Anemograph.																
1898 ...	6·4	7·0	7·0	6·3	6·2	9·8	11·0	10·4	6·7	5·6	5·8	6·5	6·3	6·5	9·5	7·4
1899 ...	6·5	6·4	7·3	6·0	6·5	8·8	10·5	7·4	6·1	4·7	5·8	5·3	5·7	6·6	8·2	6·8
1900 ...	6·4	6·7	6·3	6·1	6·6	7·9	10·2	10·8	7·4	5·5	5·7	5·9	6·0	6·3	9·1	7·1
1901 ...	6·8	7·4	6·1	6·3	6·0	8·2	10·6	10·5	6·5	5·6	5·8	5·6	6·2	6·1	8·9	7·1
1902 ...	6·1	6·1	6·0	6·0	5·9	9·2	10·2	7·7	6·4	5·7	7·1	7·4	6·5	6·0	8·4	7·0
1903 ...	6·8	7·7	7·7	7·4	7·5	8·2	11·2	8·7	6·4	6·0	5·9	6·4	6·6	7·5	8·6	7·5
1904 ...	6·3	6·2	8·0	6·6	5·6	9·5	10·9	9·4	7·8	5·5	6·1	6·8	6·2	6·7	9·4	7·4
1905 ...	7·2	7·8	7·9	6·6	6·0	6·8	10·4	8·1	5·7	5·5	6·3	6·4	6·6	6·8	7·7	7·1
1906 ...	6·2	6·9	6·9	7·3	5·6	8·0	9·2	7·3	6·8	5·4	5·1	6·0	5·9	6·6	7·8	6·7
1907 ...	5·6	7·1	6·5	6·5	6·2	9·4	7·9	11·3	6·5	4·9	5·6	6·3	5·9	6·4	8·8	7·0
1908 ...	5·6	6·7	6·6	6·0	5·4	7·5	10·4	9·4	4·7	4·9	5·2	6·1	5·7	6·0	8·0	6·5
1909 ...	6·3	6·0	6·2	5·7	6·3	8·5	11·3	6·8	5·6	5·4	5·4	5·6	5·7	6·1	8·0	6·6
1910 ...	5·8	5·8	6·3	6·9	6·1	8·9	7·2	7·9	5·3	5·3	5·6	4·6	5·4	6·4	7·3	6·3
1911 ...	5·8	6·3	6·9	6·7	5·3	7·5	7·6	8·9	6·1	4·9	4·9	5·3	5·4	6·3	7·5	6·3
Means, 1898 to 1911 ...	6·3	6·7	6·8	6·5	6·1	8·4	9·9	8·9	6·3	5·3	5·7	6·0	6·0	6·4	8·4	6·9
Factors for Robinson-Beckley's Anemograph.																
1898 ...	2·06	2·08	2·08	2·05	2·02	2·10	2·04	2·03	2·23	2·21	2·00	2·03	2·08	2·05	2·10	2·07
1899 ...	2·05	2·11	2·13	2·14	2·07	2·08	2·01	2·00	2·06	2·07	2·15	2·06	2·09	2·11	2·03	2·08
1900 ...	2·06	2·12	2·10	2·08	2·22	2·08	2·04	1·95	2·04	2·06	2·06	2·19	2·09	2·12	2·02	2·07
1901 ...	2·12	2·07	2·13	2·12	2·02	2·03	1·98	1·98	2·05	2·10	2·05	2·00	2·07	2·08	1·99	2·05
1902 ...	2·06	2·08	2·09	2·09	2·03	2·09	2·00	2·01	2·09	2·14	2·27	2·24	2·17	2·09	2·05	2·10
1903 ...	2·24	2·26	2·26	2·39	2·23	2·24	2·10	2·07	2·11	2·17	2·11	2·13	2·20	2·27	2·11	2·18
1904 ...	2·12	2·21	2·24	2·20	2·18	2·10	2·06	2·04	2·17	2·20	2·23	2·22	2·21	2·21	2·09	2·16
1905 ...	2·23	2·17	2·30	2·33	2·28	2·12	2·07	2·06	2·14	2·17	2·08	2·09	2·13	2·29	2·08	2·17
1906 ...	2·04	2·09	2·13	2·15	2·13	2·14	2·01	2·07	2·08	2·13	2·22	2·14	2·11	2·13	2·07	2·09
1907 ...	2·10	2·07	2·10	2·12	2·11	2·09	1·99	1·99	2·12	2·13	2·05	2·05	2·08	2·11	2·05	2·08
1908 ...	2·00	2·01	1·96	1·96	1·95	2·05	1·86	1·83	1·93	1·99	1·97	2·01	1·99	1·96	1·90	1·93
1909 ...	1·99	2·05	2·07	1·97	2·01	2·01	1·98	2·06	2·13	2·16	2·16	2·07	2·06	2·03	2·02	2·04
1910 ...	2·05	2·00	2·01	2·05	1·99	2·10	1·85	1·80	1·81	1·92	1·93	1·82	1·93	2·00	1·89	1·95
1911 ...	2·10	2·08	2·09	1·99	1·96	1·89	1·78	1·80	1·95	2·04	2·01	1·96	2·02	2·01	1·84	1·95
Means, 1898 to 1911 ...	2·10	2·09	2·10	2·12	2·10	2·07	1·99	1·98	2·08	2·09	2·09	2·07	2·09	2·09	2·03	2·07

TABLE II.—*Showing for each month, groups of months, and the whole year, during the period 1898 to 1911, the average factors of the Robinson-Beckley's Anemograph as determined from the Dines' Anemograph from the daily mean velocities and the hourly mean velocities for each month.*

Years.	Months.												Means.			
	January.	February.	March.	April.	May.	June.	July	August.	September.	October.	November.	December.	October to February.	March to May.	June to September.	Year.
Average factors derived from daily mean velocities.																
1898 ...	2·03	2·06	2·07	2·04	1·99	2·08	2·05	2·04	2·27	2·22	1·99	2·02	2·06	2·03	2·11	2·07
1899 ...	2·03	2·10	2·13	2·13	2·05	2·07	1·99	1·99	2·05	2·08	2·16	2·07	2·09	2·10	2·02	2·07
1900 ...	2·06	2·09	2·09	2·06	2·23	2·08	2·05	1·96	2·03	2·02	2·04	2·19	2·08	2·13	2·03	2·07
1901 ...	2·13	2·09	2·12	2·11	2·01	2·02	2·00	1·97	2·04	2·12	2·06	2·01	2·08	2·08	2·01	2·06
1902 ...	2·04	2·04	2·08	2·09	2·09	2·06	2·08	2·01	2·11	2·16	2·25	2·25	2·15	2·09	2·06	2·10
1903 ...	2·27	2·28	2·28	2·41	2·37	2·23	2·14	2·08	2·13	2·17	2·11	2·16	2·20	2·35	2·14	2·22
1904 ...	2·15	2·20	2·24	2·19	2·18	2·14	2·06	2·05	2·15	2·17	2·22	2·23	2·19	2·20	2·10	2·16
1905 ...	2·22	2·19	2·32	2·35	2·27	2·13	2·06	2·07	2·16	2·16	2·09	2·08	2·15	2·31	2·10	2·17
1906 ...	2·04	2·09	2·13	2·15	2·12	2·17	2·03	2·08	2·10	2·16	2·25	2·14	2·14	2·13	2·09	2·12
1907 ...	2·11	2·07	2·11	2·13	2·12	2·06	1·99	1·99	2·13	2·17	2·06	2·04	2·09	2·12	2·04	2·08
1908 ...	2·00	2·00	1·97	1·95	1·96	2.02	1·86	1·83	1·94	1·96	1·96	2·01	1 99	1·96	1·91	1·95
1909 ...	1·99	2·03	2·07	1·94	2·00	2·00	1·98	2·06	2 14	2·16	2·13	2·04	2·07	2·00	2·04	2·04
1910 ...	2·03	1·97	2·00	2·05	1·98	2·08	1·83	1·78	1·80	1·91	1·94	1·82	1·93	2·01	1·87	1·93
1911 ...	2·10	2·06	2·07	1·99	1·96	1·88	1·78	1·81	1·97	2·03	2·00	1·97	2·03	2·01	1·86	1·97
Means, 1898 to 1911.	2·09	2·09	2·12	2·11	2·09	2·07	1·99	1·98	2·07	2·11	2·09	2·07	2·09	2 11	2·03	2·07
Average factors derived from hourly mean velocities.																
1898 ...	2·04	2·05	2·08	2·04	2·01	2·08	2·05	2·03	2·23	2·18	1·97	2·01	2·05	2·04	2·10	2·06
1899 ...	2·03	2·09	2·14	2·16	2·06	2·08	2·00	2·01	2 06	2·09	2·15	2·06	2·08	2·12	2·04	2·08
1900 ...	2·06	2·09	2·09	2·06	2·25	2·08	2·04	1·96	2·03	2·03	2·04	2·18	2·08	2·13	2·03	2·08
1901 ...	2·12	2·07	2·12	2·14	2·02	2·04	1·99	1·97	2·03	2·12	2·06	2·01	2·08	2·09	2·01	2·06
1902 ...	2·04	2·04	2·08	2·11	2·13	20·8	2·06	2·01	2·10	2·16	2·27	2·24	2·15	2·11	2·06	2·11
1903 ...	2·26	2·27	2·29	2·41	2·25	2·25	2·11	2·07	2·12	2·16	2·12	2·16	2·19	2·32	2·14	2·21
1904 ...	2·15	2·20	2·24	2·21	2·21	2·09	2·06	2·05	2·15	2·18	2·22	2·23	2·20	2·22	2·09	2·17
1905 ...	2·22	2·19	2·33	2·38	2·31	2·15	2·07	2·05	2·14	2·19	2·09	2·08	2·15	2·34	2·10	2·18
1906 ...	2·04	2·09	2·13	2·16	2·13	2·16	2·02	2·06	2·08	2·16	2·25	2·15	2·14	2·14	2·08	2·12
1907 ...	2·11	2·06	2·10	2·14	2·15	2·08	1·98	1·99	2·13	2·18	2·07	2·05	2·09	2·13	2·04	2·09
1908 ...	2·00	2·00	1·97	1·97	1·97	2·03	1·86	1·83	1·94	1·96	1·96	2·01	1·99	1·97	1·91	1·96
1909 ...	1·98	2·03	2·08	1·97	2·02	2·00	1·99	2·05	2·14	2·16	2·11	2·04	2·06	2·02	2·04	2·05
1910 ...	2·00	1·95	2·00	2·08	1·99	2·10	1·83	1·79	1·81	1·90	1·93	1·81	1·92	2·02	1·88	1·93
1911 ...	2·09	2·06	2·08	1·99	1·98	1·87	1·78	1·80	1·96	2·05	2·01	1·96	2·03	2·02	1·85	1·97
Means, 1898 to 1911.	2·08	2·08	2·12	2·13	2·11	2·08	1·99	1·98	2·07	2·11	2·09	2·07	2 09	2·12	2·03	2·08

TABLE III.—*Showing for each month of each of the years 1898 to 1911 and Anemograph as determined from the Dines' Anemograph*

Years.	Velocity of wind by Robinson-Beckley's Anemograph between the limits								Velocity of wind by Robinson-Beckley's Anemograph between the limits							
	1 to 5 miles.		6 to 10 miles.		11 to 20 miles.		21 miles and above.		1 to 5 miles.		6 to 10 miles.		11 to 20 miles.		21 miles and above.	
	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.
	January.								April.							
1898 ...	...	...	23	2·03	8	2·05	...	...	...	...	23	2·02	7	2·09	...	...
1899 ...	2	1·99	19	2·03	10	2·06	...	...	...	...	25	2·14	5	2·10	...	...
1900 ...	3	2·01	20	2·05	8	2·11	...	...	...	...	25	2·05	5	2·10	...	...
1901 ...	1	2·07	21	2·14	9	2·12	...	...	1	2·06	24	2·13	5	2·01	...	...
1902 ...	...	...	26	2·03	5	2·07	...	...	...	...	26	2·09	4	2·13	...	...
1903 ...	2	2·44	20	2·26	9	2·26	...	...	4	2·59	14	2·35	12	2·31	...	...
1904 ...	3	2·22	20	2·16	8	2·11	...	...	1	2·24	22	2·20	7	2·18	...	...
1905 ...	...	...	24	2·23	6	2·19	1	2·21	...	...	25	2·48	5	2·26	...	...
1906 ...	2	2·00	20	2·05	9	2·02	...	...	...	...	16	2·16	14	2·13	...	...
1907 ...	3	2·26	26	2·09	2	2·08	...	...	...	...	21	2·16	9	2·08	...	...
1908 ...	1	1·96	25	1·99	5	2·05	...	...	...	...	23	1·92	6	2·02	1	2·05
1909 ...	...	...	22	1·91	9	2·05	...	...	...	...	30	1·94	...	...	...	...
1910 ...	...	...	27	2·02	4	2·05	...	...	1	2·22	13	1·96	16	2·11	...	...
1911 ...	2	1·99	26	2·10	3	2·10	...	...	1	1·75	17	1·95	12	2·05	...	...
	February.								May.							
1898 ...	1	1·90	16	2·04	11	2·09	...	...	...	...	25	1·97	6	2·10	...	...
1899 ...	2	2·10	18	1·98	8	2·37	...	...	...	...	23	2·04	8	2·07	...	...
1900 ...	1	2·00	17	2·08	10	2·13	...	...	...	...	25	2·22	6	2·24	...	...
1901 ...	1	2·18	13	2·09	14	2·07	...	...	...	...	28	2·01	3	2·06	...	...
1902 ...	2	2·01	18	2·03	8	2·07	...	...	...	...	26	2·08	4	2·14	...	...
1903 ...	...	...	19	2·29	9	2·26	...	...	2	2·50	18	2·36	2	2·27	...	...
1904 ...	...	...	28	2·20	1	2·11	...	...	...	...	29	2·18	2	2·17	...	...
1905 ...	2	2·28	10	2·20	16	2·18	...	...	...	...	30	2·27	1	2·30	...	...
1906 ...	2	2·21	15	2·09	11	2·09	...	...	...	...	30	2·12	1	2·08	...	...
1907 ...	...	...	17	2·09	11	2·04	...	...	...	...	26	2·13	5	2·11	...	...
1908 ...	1	1·95	16	1·99	12	2·03	...	...	1	2·11	28	1·96	2	1·98	...	...
1909 ...	1	1·85	21	2·02	6	2·08	...	...	...	...	26	1·97	5	2·13	...	...
1910 ...	...	...	21	1·94	7	2·03	...	...	2	1·93	22	1·97	7	2·03	...	...
1911 ...	1	1·80	23	2·07	4	2·11	...	...	4	2·01	20	1·95	7	1·98	...	...
	March.								June.							
1898 ...	2	2·02	18	2·06	11	2·10	...	...	...	...	6	2·13	23	2·07	1	2·24
1899 ...	...	...	18	2·11	13	2·16	...	...	...	...	10	2·04	19	2·09	1	2·07
1900 ...	...	...	24	2·08	7	2·10	...	...	1	2·18	14	2·09	15	2·06	...	...
1901 ...	4	2·12	19	2·13	8	2·10	...	...	...	...	15	2·02	13	2·01	2	2·14
1902 ...	...	...	27	2·08	4	2·10	...	...	...	...	12	2·08	14	2·03	4	2·12
1903 ...	...	...	15	2·30	16	2·28	...	...	...	...	16	2·21	12	2·26	2	2·19
1904 ...	...	...	18	2·27	13	2·21	...	...	...	...	10	2·28	20	2·08	...	...
1905 ...	1	2·64	18	2·33	12	2·28	...	...	...	...	23	2·12	7	2·19	...	...
1906 ...	2	2·04	17	2·15	12	2·12	...	...	...	...	13	2·20	17	2·14	...	...
1907 ...	...	...	24	2·12	7	2·05	...	...	...	...	12	2·03	15	2·05	3	2·26
1908 ...	...	...	17	1·93	14	2·01	...	...	...	...	19	2·01	10	2·03	1	2·17
1909 ...	1	1·96	20	2·06	10	2·10	...	...	...	...	8	2·00	21	2·00	1	1·96
1910 ...	1	2·08	22	1·98	8	2·04	...	...	...	...	7	2·09	21	2·06	2	2·25
1911 ...	2	1·98	17	2·07	12	2·09	...	...	...	...	9	1·91	21	1·87	...	...

for the different degrees of velocities, the average factors of the Robinson-Beckley's from the daily mean velocities by the two instruments.

Velocity of wind by Robinson-Beckley's Anemograph between the limits								Velocity of wind by Robinson-Beckley's Anemograph between the limits								Years.
1 to 5 miles.		6 to 10 miles.		11 to 20 miles.		21 miles and above.		1 to 5 miles.		6 to 10 miles.		11 to 20 miles.		21 miles and above.		
Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	Number of observations.	Average factor.	
July.								October.								
...	...	1	2·07	28	2·05	2	2·00	3	2·56	25	2·18	3	2·27	...	...	1898
...	...	3	1·96	27	2·00	1	2·01	4	2·07	27	2·09	...	...	...	...	1899
3	2·04	7	2·15	16	2·03	5	1·99	3	2·29	25	1·98	3	2·05	...	...	1900
...	...	2	2·36	27	1·98	2	1·94	3	2·18	23	2·10	5	2·13	...	...	1901
...	...	6	2·14	20	2·07	4	2·00	1	2·00	26	2·17	4	2·15	...	...	1902
1	2·15	3	2·33	23	2·13	4	2·05	2	2·32	25	2·17	4	2·11	...	...	1903
...	...	...	...	30	2·06	1	2·02	2	2·25	29	2·17	...	...	...	...	1904
...	...	3	2·08	24	2·07	4	2·04	3	2·49	26	2·12	2	2·23	...	...	1905
...	...	7	2·08	22	2·02	2	1·97	1	2·29	29	2·16	1	1·97	...	...	1906
2	2·06	15	1·98	12	1·99	2	1·99	6	2·24	23	2·16	...	...	...	...	1907
...	...	2	1·93	28	1·85	1	1·83	4	1·84	27	1·98	...	...	...	...	1908
...	...	...	...	26	1·99	4	1·97	3	2·01	28	2·17	...	...	...	...	1909
1	1·80	17	1·88	11	1·84	2	1·84	1	1·80	27	1·89	3	1·96	...	...	1910
...	...	10	1·77	21	1·78	...	...	4	1·99	27	2·04	...	...	...	...	1911
August.								November.								
...	...	3	1·98	26	2·04	2	1·99	...	...	25	1·99	5	1·97	...	...	1898
...	...	16	2·00	15	1·99	...	...	...	...	30	2·16	...	...	...	...	1899
...	...	3	1·95	19	1·96	9	1·97	...	...	29	2·04	1	1·99	...	...	1900
...	...	4	1·99	24	1·97	3	1·94	...	...	27	2·06	3	2·08	...	...	1901
...	...	17	2·01	14	2·01	...	...	3	2·24	18	2·26	9	2·25	...	...	1902
...	...	12	2·13	19	2·06	...	...	1	2·05	24	2·12	5	2·07	...	...	1903
...	...	6	2·06	24	2·05	1	2·04	1	2·45	26	2·22	3	2·14	...	...	1904
1	2·46	11	2·09	19	2·03	...	...	1	2·26	20	2·09	9	2·08	...	...	1905
...	...	17	2·13	13	2·03	1	2·01	4	2·49	26	2·21	...	...	...	...	1906
...	...	3	1·99	24	1·97	4	1·99	...	...	...	...	...	...	...	...	1907
...	...	1	1·87	28	1·83	2	1·53	2	1·91	25	1·95	3	2·05	...	...	1908
...	...	20	2·09	11	2·01	...	...	1	2·12	27	2·14	2	2·04	...	...	1909
...	...	9	1·73	20	1·77	2	1·80	...	...	25	1·94	5	1·95	...	...	1910
1	1·86	2	1·90	27	1·80	1	1·80	4	*1·90	26	2·01	...	...	...	...	1911
September.								December.								
2	2·42	21	2·33	7	2·05	...	...	1	2·04	19	2·00	11	2·06	...	...	1898
...	...	21	2·04	9	2·08	...	...	1	2·26	30	2·06	...	...	...	...	1899
1	2·18	12	2·19	17	2·04	...	...	2	2·21	26	2·19	3	2·16	...	...	1900
...	...	22	2·04	8	2·03	...	...	...	...	27	2·01	4	2·05	...	...	1901
5	2·14	17	2·14	8	2·04	...	...	1	2·25	17	2·29	12	2·20	1	2·19	1902
1	2·11	21	2·15	8	2·10	...	...	1	2·29	23	2·17	7	2·09	...	...	1903
...	...	18	2·17	11	2·13	1	2·09	...	...	24	2·24	7	2·19	...	...	1904
3	2·17	22	2·18	5	2·04	...	...	...	...	24	2·08	7	2·08	...	...	1905
1	2·17	20	2·13	9	2·02	...	...	2	2·20	26	2·14	3	2·10	...	...	1906
...	...	21	2·15	9	2·08	...	...	...	...	19	2·04	5	2·05	...	...	1907
1	1·89	28	1·95	1	1·92	...	...	...	...	25	2·00	6	2·04	...	...	1908
4	2·07	23	2·16	3	2·08	...	...	1	1·96	26	2·04	4	2·08	...	...	1909
6	1·67	17	1·83	6	1·82	1	1·92	...	...	31	1·82	...	...	...	...	1910
3	1·96	16	1·98	11	1·95	...	...	...	...	29	1·97	2	2·00	...	...	1911

TABLE IV.—*Showing the average factors of the Robinson-Beckley's Anemograph determined from the Dines' Anemograph for each of the years 1898 to 1911 and for the average months of the whole period.*

	Velocity of wind by Robinson-Beckley's Anemograph between the limits								General result of all values.	
	1 to 5 miles.		6 to 10 miles.		11 to 20 miles.		21 miles and above.			
	Number of determinations.	Average factor.	Number of determinations.	Average factor.	Number of determinations.	Average factor.	Number of determinations.	Average factor.	Number of determinations.	Average factor.
Average factors: Each year.										
1898	9	2·28	205	2·07	146	2·06	5	2·05	365	2·07
1899	9	2·08	240	2·07	114	2·08	2	2·04	365	2·07
1900	14	2·13	227	2·09	110	2·06	14	1·98	365	2·08
1901	10	2·13	225	2·07	123	2·03	7	2·00	365	2·06
1902	12	2·14	236	2·11	106	2·09	9	2·08	363	2·11
1903	14	2·39	210	2·23	126	2·18	6	2·10	356	2·22
1904	7	2·26	230	2·20	126	2·10	3	2·05	366	2·17
1905	11	2·35	236	2·24	113	2·15	5	2·07	365	2·21
1906	14	2·24	236	2·14	112	2·07	3	1·99	365	2·12
1907	11	2·21	207	2·10	99	2·04	9	2·08	326	2·08
1908	10	1·91	236	1·97	115	1·94	5	1·82	366	1·96
1909	11	2·02	251	2·05	97	2·03	5	1·97	364	2·05
1910	12	1·82	238	1·92	108	1·97	7	1·96	365	1·93
1911	22	1·95	222	2·00	120	1·91	1	1·80	365	1·97
Means 1898 to 1911 ...	166	2·13	3,199	2·09	1,615	2·05	81	2·01	5,061	2·08
Mean factors for the average months.										
January	19	2·12	319	2·08	95	2·10	1	2·21	434	2·09
February	14	2·06	252	2·08	128	2·12	...	...	394	2·09
March	13	2·10	274	2·11	147	2·14	...	...	434	2·12
April	8	2·33	304	2·14	107	2·12	1	2·05	420	2·14
May	9	2·11	356	2·09	59	2·10	...	...	424	2·09
June	1	2·18	174	2·09	228	2·06	17	2·17	420	2·08
July	7	2·03	76	1·98	315	2·00	34	1·99	432	2·01
August	2	2·16	124	2·03	283	1·96	25	1·92	434	1·98
September	27	2·02	279	2·10	112	2·04	2	2·00	420	2·08
October	40	2·17	367	2·10	25	2·11	...	...	432	2·11
November	17	2·18	328	2·09	45	2·08	...	...	390	2·09
December	9	2·18	346	2·06	71	2·10	1	2·19	427	2·07
October to February ...	99	2·15	1,612	2·08	364	2·10	2	2·20	2,077	2·09
March to May ...	30	2·16	934	2·11	313	2·13	1	2·05	1,278	2·12
June to September ...	37	2·03	653	2·07	938	2·00	78	2·01	1,706	2·05
Year	166	2·13	3,199	2·09	1,615	2·05	81	2·01	5,061	2·08

TABLE V.—*Showing for the average months, groups of months, and the year during the period 1898 to 1911, the mean hourly Velocity of the Wind derived from Robinson-Beckley's Anemograph.*

(In miles per hour.)

1898 to 1911.	Months.												Means.			
Bombay Civil Time hourly intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	October to February.	March to May.	June to September.	Year.
H. H.																
0 to 1 ...	6·1	6·5	7·9	7·7	7·2	12·0	14·8	13·2	8·1	5·8	5·8	5·8	6·0	7·6	12·0	8·4
1 „ 2 ...	6·3	6·7	7·9	7·1	6·7	11·8	15·1	13·3	8·2	5·9	5·9	6·4	6·2	7·2	12·1	8·4
2 „ 3 ...	6·7	7·1	7·6	6·5	6·3	11·9	15·2	13·7	8·2	6·2	6·6	7·0	6·7	6·8	12·2	8·6
3 „ 4 ...	7·1	7·3	7·1	6·1	6·1	11·8	15·3	13·7	8·1	6·2	7·5	7·5	7·1	6·4	12·2	8·6
4 „ 5 ...	7·7	7·7	6·9	5·7	5·8	11·7	15·2	13·9	8·3	6·3	8·0	8·5	7·6	6·1	12·3	8·8
5 „ 6 ...	7·7	7·5	6·5	5·4	5·5	11·5	15·3	13·6	8·2	6·4	8·5	8·9	7·8	5·8	12·1	8·7
6 „ 7 ...	7·9	7·3	6·4	5·1	5·4	11·3	15·1	13·3	8·1	6·5	8·7	9·3	7·9	5·6	11·9	8·7
7 „ 8 ...	8·0	7·3	6·4	5·8	6·0	11·1	14·8	13·1	8·3	7·1	9·1	9·4	8·2	6·1	11·8	8·9
8 „ 9 ...	8·4	7·9	7·2	6·5	6·7	11·6	14·9	13·3	8·5	7·5	9·4	9·8	8·6	6·8	12·1	9·3
9 „ 10 ...	8·2	7·9	7·2	7·0	7·4	11·6	14·7	13·0	8·2	6·8	8·3	8·9	8·0	7·2	11·9	9·1
10 „ 11 ...	7·8	7·8	8·4	8·7	9·0	12·4	15·3	13·6	8·7	6·2	7·0	7·8	7·3	8·7	12·5	9·4
11 „ 12 ...	7·3	8·7	10·5	10·4	10·1	12·5	15·1	14·0	9·3	6·6	5·9	6·5	7·0	10·3	12·7	9·7
12 „ 13 ...	8·6	10·7	12·5	12·2	11·3	12·8	15·2	14·6	10·4	8·3	7·1	6·9	8·3	12·0	13·2	10·9
13 „ 14 ...	10·3	12·4	13·9	13·7	12·4	13·2	15·2	14·6	11·1	9·8	8·5	8·0	9·8	13·3	13·5	11·9
14 „ 15 ...	11·7	13·6	15·0	14·8	13·3	13·7	15·4	14·9	11·8	11·1	9·8	9·6	11·2	14·4	13·9	12·9
15 „ 16 ...	12·7	14·5	15·5	15·3	13·6	13·9	15·8	14·9	12·0	11·6	11·0	10·7	12·1	14·8	14·1	13·5
16 „ 17 ...	12·8	14·6	15·0	14·6	13·2	13·6	15·4	14·5	11·5	11·4	11·1	11·2	12·2	14·3	13·7	13·2
17 „ 18 ...	12·8	14·3	14·0	13·3	12·2	12·7	14·9	13·9	10·6	10·5	11·1	11·8	12·1	13·2	13·0	12·7
18 „ 19 ...	13·2	14·0	12·7	11·6	10·8	12·5	14·5	13·3	10·0	9·8	11·4	12·4	12·2	11·7	12·6	12·2
19 „ 20 ...	12·7	12·9	10·9	9·9	9·4	12·1	14·2	12·8	9·2	8·5	10·4	11·9	11·3	10·1	12·1	11·2
20 „ 21 ...	10·9	11·2	9·1	8·6	8·4	11·8	14·0	12·5	8·4	7·1	8·6	10·0	9·6	8·7	11·7	10·0
21 „ 22 ...	8·4	8·5	7·7	7·9	7·6	11·7	14·0	12·2	8·0	6·1	6·3	7·5	7·4	7·7	11·5	8·8
22 „ 23 ...	6·9	7·3	7·8	8·0	7·5	11·8	14·3	12·5	7·9	5·7	5·8	6·6	6·5	7·8	11·6	8·5
23 „ 24 ...	6·4	6·7	7·9	7·8	7·4	11·7	14·5	12·6	7·9	5·7	5·5	6·0	6·1	7·7	11·7	8·3
Means ...	9·0	9·6	9·7	9·2	8·7	12·2	14·9	13·5	9·1	7·6	8·2	8·7	8·6	9·2	12·4	10·0

TABLE VI.—*Showing for the average months, groups of months, and the year during the period 1898 to 1911, the mean hourly Velocity of the Wind derived from Dines' Anemograph.*

(In miles per hour.)

1898 to 1911.	Months.												Means.			
Bombay Civil Time hourly intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	October to February.	March to May.	June to September.	Year.
H. H.																
0 to 1 ..	4·2	4·5	5·7	5·5	5·1	8·3	9·8	8·6	5·6	4·1	3·9	4·0	4·1	5·4	8·1	5·8
1 „ 2 ...	4·3	4·6	5·6	5·1	4·8	8·1	10·0	8·7	5·6	4·1	4·1	4·4	4·3	5·2	8·1	5·8
2 „ 3 ..	4·5	4·9	5·4	4·7	4·5	8·2	10·1	9·0	5·6	4·3	4·5	4·7	4·6	4·9	8·2	5·9
3 „ 4 ...	4·9	5·1	5·0	4·3	4·3	8·2	10·1	9·0	5·6	4·3	5·1	5·1	4·9	4·5	8·2	5·9
4 „ 5 ..	5·1	5·2	4·8	4·0	4·1	8·0	10·1	9·0	5·7	4·3	5·5	5·6	5·1	4·3	8·2	5·9
5 „ 6 ..	5·3	5·2	4·6	3·9	4·0	8·0	10·1	8·9	5·6	4·4	5·8	6·0	5·3	4·2	8·1	6·0
6 „ 7 ...	5·4	5·1	4·6	3·7	3·9	7·8	10·0	8·7	5·7	4·6	6·0	6·3	5·5	4·1	8·0	6·0
7 „ 8 ...	5·4	5·0	4·5	4·2	4·3	7·8	9·9	8·6	5·8	5·0	6·3	6·4	5·6	4·3	8·0	6·1
8 „ 9 ...	5·7	5·4	5·1	4·7	4·7	8·0	9·9	8·7	5·9	5·3	6·4	6·6	5·9	4·8	8·1	6·4
9 „ 10 ...	5·7	5·5	5·1	5·0	5·3	8·1	9·9	8·6	5·8	4·9	5·9	6·2	5·6	5·1	8·1	6·3
10 „ 11 ...	5·2	5·3	5·8	5·9	6·0	8·4	10·1	8·8	5·9	4·2	4·7	5·3	4·9	5·9	8·3	6·3
11 „ 12 ...	5·2	6·0	7·4	7·1	6·9	8·5	10·1	9·2	6·4	4·6	4·3	4·7	5·0	7·1	8·5	6·7
12 „ 13 ...	6·0	7·5	8·8	8·4	7·8	8·8	10·1	9·6	7·1	5·7	5·0	4·9	5·8	8·3	8·9	7·5
13 „ 14 ...	7·2	8·8	9·7	9·6	8·5	9·2	10·2	9·7	7·7	6·9	5·9	5·7	6·9	9·3	9·2	8·3
14 „ 15 ...	8·2	9·5	10·5	10·3	9·0	9·3	10·2	9·7	8·1	7·7	6·9	6·7	7·8	9·9	9·3	8·8
15 „ 16 ..	8·9	10·2	10·9	10·5	9·3	9·5	10·3	9·7	8·2	8·1	7·6	7·4	8·4	10·2	9·4	9·2
16 „ 17 ...	9·1	10·4	10·6	10·3	9·1	9·5	10·2	9·6	8·0	8·1	7·9	7·9	8·7	10·0	9·3	9·2
17 „ 18 ...	9·2	10·2	10·0	9·4	8·5	8·9	9·9	9·2	7·4	7·5	7·9	8·3	8·6	9·3	8·8	8·9
18 „ 19 ...	9·3	9·9	9·0	8·2	7·5	8·6	9·6	8·8	6·9	6·9	8·0	8·7	8·6	8·2	8·5	8·4
19 „ 20 ...	9·0	9·2	7·9	7·1	6·6	8·4	9·5	8·5	6·3	6·1	7·4	8·5	8·0	7·2	8·2	7·9
20 „ 21 ...	7·6	7·9	6·5	6·1	5·8	8·2	9·3	8·2	5·8	5·0	6·0	6·9	6·7	6·1	7·9	6·9
21 „ 22 ...	5·9	6·0	5·6	5·7	5·3	8·2	9·4	8·1	5·6	4·3	4·4	5·3	5·2	5·5	7·8	6·1
22 „ 23 ...	4·8	5·0	5·5	5·7	5·3	8·2	9·5	8·1	5·4	4·0	3·9	4·5	4·4	5·5	7·8	5·8
23 „ 24 ...	4·4	4·7	5·6	5·5	5·2	8·2	9·7	8·3	5·4	3·9	3·8	4·1	4·2	5·4	7·9	5·7
Means ...	6·3	6·7	6·8	6·5	6·1	8·4	9·9	8·9	6·3	5·3	5·7	6·0	6·0	6·5	8·4	6·9

TABLE VII.—*Showing the mean hourly factors of the Robinson-Beckley's Anemograph determined from the Dines' Anemograph derived from the average hourly velocities by the two instruments given in Tables V and VI.*

1898 to 1911.	Months.												Means.			
Bombay Civil Time hourly intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	October to February.	March to May.	June to September.	Year.
H. H. 0 to 1 ...	2·07	2·08	2·16	2·14	2·12	2·07	1·99	1·95	2·07	2·12	2·02	2·07	2·05	2·13	2·02	2·07
1 „ 2 ...	2·05	2·06	2·13	2·15	2·15	2·06	1·99	1·96	2·05	2·08	2·08	2·06	2·08	2·17	2·01	2·07
2 „ 3 ...	2·01	2·07	2·13	2·17	2·14	2·07	1·99	1·97	2·05	2·08	2·05	2·01	2·06	2·16	2·02	2·06
3 „ 4 ...	2·07	2·10	2·11	2·11	2·11	2·08	1·98	1·97	2·07	2·08	2·04	2·04	2·07	2·11	2·02	2·06
4 „ 5 ...	**1·99**	**2·03**	2·09	2·11	2·12	2·05	1·99	**1·94**	2·06	2·05	2·06	**1·98**	**2·01**	2·11	2·00	**2·01**
5 „ 6 ...	2·06	2·08	2·12	2·17	**2·18**	2·09	1·98	1·96	2·05	2·06	2·05	2·02	2·04	2·17	2·01	2·07
6 „ 7 ...	2·05	2·10	2·16	**2·18**	2·17	2·07	1·99	1·96	2·11	2·12	2·07	2·03	2·09	**2·20**	2·02	2·07
7 „ 8 ...	2·02	2·05	2·11	2·17	2·15	**2·11**	2·01	1·97	2·10	2·11	2·08	2·04	2·05	2·11	2·03	2·06
8 „ 9 ...	2·04	2·05	2·12	2·17	2·10	2·07	1·99	1·96	2·08	2·12	2·04	2·02	2·06	2·12	2·01	2·05
9 „ 10 ...	2·09	2·09	2·12	2·14	2·15	2·09	**2·02**	1·98	**2·12**	**2·16**	2·13	2·09	2·10	2·12	**2·04**	2·08
10 „ 11 ...	2·00	2·04	**2·07**	**2·03**	**2·00**	**2·03**	1·98	1·94	**2·03**	**2·03**	**2·01**	2·04	2·01	**2·03**	**1·99**	2·01
11 „ 12 ...	2·14	2·07	2·11	2·05	2·05	2·04	2·01	1·97	2·06	2·09	**2·19**	**2·17**	**2·14**	2·07	2·01	2·07
12 „ 13 ...	2·09	2·10	2·11	2·07	2·07	2·06	1·99	1·97	2·05	2·06	2·11	2·13	2·10	2·07	2·02	2·06
13 „ 14 ...	2·10	2·13	2·09	2·10	2·06	2·09	2·01	1·99	2·08	2·11	2·08	2·14	2·11	2·10	2·04	2·09
14 „ 15 ...	2·10	2·10	2·10	2·09	2·03	2·04	1·99	1·95	2·06	2·08	2·11	2·09	2·09	2·06	2·01	2·05
15 „ 16 ...	2·10	2·11	2·11	2·06	2·05	2·05	**1·96**	1·95	2·05	2·09	2·07	2·07	2·08	2·07	2·00	2·04
16 „ 17 ...	2·13	**2·14**	2·12	2·12	2·07	2·10	1·99	**1·99**	2·09	2·13	2·14	2·12	2·14	2·10	2·04	2·09
17 „ 18 ...	**2·16**	2·14	2·14	2·12	2·09	2·10	1·99	1·99	2·09	2·14	2·14	2·11	2·13	2·11	2·03	2·10
18 „ 19 ...	2·11	2·12	2·13	2·12	2·08	2·06	1·99	1·98	2·07	2·11	2·11	2·10	2·11	2·10	2·02	2·07
19 „ 20 ...	2·13	2·14	2·17	2·15	2·11	2·08	2·01	1·99	2·05	2·15	2·13	2·14	2·12	2·14	2·03	**2·12**
20 „ 21 ...	2·09	2·12	2·14	2·13	2·07	2·08	1·99	1·97	2·07	2·11	2·09	2·07	2·09	2·10	2·03	2·07
21 „ 22 ...	2·11	2·12	**2·18**	2·16	2·09	2·10	2·01	1·99	2·10	2·11	2·10	2·12	2·11	2·14	2·03	2·08
22 „ 23 ...	2·09	2·05	2·12	2·14	2·12	2·08	1·99	1·94	2·05	2·11	2·02	2·05	2·03	2·12	2·02	2·05
23 „ 24 ...	2·06	2·10	2·13	2·12	2·11	2·10	2·01	1·98	2·05	2·05	2·07	2·05	2·07	2·10	2·04	2·06
Monthly mean factors	2·10	2·09	2·10	2·12	2·10	2·07	1·99	1·98	2·08	2·09	2·09	2·07	2·09	2·12	2·03	2·07

TABLE VIII.—*Showing the mean hourly factors of the Robinson-Beckley's Anemograph determined from the Dines' Anemograph derived by averaging the factors calculated from the mean hourly velocities for each month of each of the years 1898 to 1911.*

1898 to 1911.	Months.												Means.			
Bombay Civil Time hourly intervals.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	October to February.	March to May.	June to September.	Year.
H. H.																
0 to 1 ...	2·06	2·05	2·13	2·15	2·12	2·07	1·98	1·97	2·06	2·12	2·05	2·06	2·07	2·13	2·02	2·07
1 „ 2 ...	2·07	2·06	2·11	2·13	2·13	2·08	1·99	1·97	2·07	2·09	2·07	2·04	2·07	2·12	2·03	2·07
2 „ 3 ...	2·04	2·07	2·12	2·16	2·14	2·08	2·00	1·98	2·05	2·11	2·07	2·03	2·06	2·14	2·03	2·07
3 „ 4 ...	2·07	2·06	2·11	2·11	2·16	2·08	1·98	1·97	2·05	2·09	2·05	2·04	2·06	2·13	2·02	2·06
4 „ 5 ...	2·00	2·03	2·09	2·12	2·14	2·07	1·99	**1·96**	2·05	2·07	2·06	**2·00**	**2·03**	2·12	2·02	2·05
5 „ 6 ...	2·06	2·05	2·12	2·17	**2·19**	2·08	1·97	1·96	2·05	2·07	**2·03**	2·03	2·05	2·16	2·01	2·06
6 „ 7 ...	2·04	2·07	**2·17**	**2·20**	2·16	2·09	1·99	1·97	2·09	2·14	2·06	2·04	2·07	**2·18**	2·03	2·08
7 „ 8 ...	2·05	2·07	2·14	2·19	2·16	**2·11**	2·00	1·98	2·10	2·12	2·07	2·05	2·07	2·16	**2·05**	2·09
8 „ 9 ...	2·02	2·04	2·14	2·16	2·13	2·07	1·98	1·96	2·07	2·12	2·06	2·02	2·05	2·14	2·02	2·06
9 „ 10 ...	2·08	2·10	2·13	2·16	2·15	2·10	**2·01**	1·99	**2·11**	**2·15**	2·12	2·09	2·11	2·15	2·05	**2·10**
10 „ 11 ...	**2·00**	**2·02**	**2·05**	**2·03**	**2·01**	**2·04**	1·97	1·96	**2·02**	**2·05**	2·05	2·03	2·03	**2·03**	**2·00**	**2·02**
11 „ 12 ...	2·14	2·09	2·11	2·06	2·06	2·06	1·99	1·97	2·05	2·11	**2·16**	**2·15**	2·13	2·08	2·02	2·08
12 „ 13 ...	2·10	2·09	2·09	2·06	2·07	2·07	1·99	1·97	2·05	2·08	2·13	2·11	2·10	2·07	2·02	2·07
13 „ 14 ...	2·11	2·12	2·10	2·09	2·06	2·08	1·99	1·99	2·07	2·10	2·09	2·12	2·11	2·08	2·03	2·08
14 „ 15 ...	2·11	2·10	2·11	2·08	2·03	2·05	1·98	1·97	2·05	2·08	2·12	2·10	2·10	2·07	2·01	2·06
15 „ 16 ...	2·10	2·10	2·11	2·07	2·05	2·05	**1·95**	1·97	2·06	2·10	2·09	2·08	2·09	2·08	2·01	2·06
16 „ 17 ...	2·13	2·13	2·13	2·11	2·07	2·09	1·99	1·99	2·08	2·13	2·14	2·10	2·13	2·10	2·04	2·09
17 „ 18 ...	**2·15**	2·14	2·15	2·12	2·09	2·09	1·99	1·99	2·10	2·14	2·15	2·12	**2·14**	2·12	2·04	2·10
18 „ 19 ...	2·12	2·12	2·13	2·11	2·07	2·08	1·99	1·98	2·08	2·12	2·11	2·12	2·12	2·10	2·03	2·09
19 „ 20 ...	2·14	**2·15**	2·16	2·15	2·09	2·08	2·00	1·99	2·08	2·13	2·14	2·13	2·14	2·13	2·04	2·10
20 „ 21 ...	2·10	2·12	2·13	2·14	2·09	2·09	2·00	1·98	2·07	2·13	2·11	2·08	2·11	2·12	2·03	2·09
21 „ 22 ...	2·09	2·11	2·17	2·18	2·11	2·11	2·00	**2·00**	2·08	2·13	2·09	2·09	2·10	2·15	2·05	2·10
22 „ 23 ...	2·07	2·06	2·11	2·15	2·11	2·07	1·98	1·97	2·06	2·12	2·03	2·04	2·06	2·12	2·02	2·06
23 „ 24 ...	2·08	2·08	2·14	2·13	2·12	2·10	2·00	1·99	2·05	2·07	2·10	2·05	2·08	2·13	2·03	2·08
Means ...	2·08	2·08	2·12	2·13	2·10	2·08	1·99	1·98	2·07	2·11	2·09	2·07	2·09	2·12	2·03	2·07

TABLE IX.—*Showing the mean Velocities of the north or south and the east or west components*

(In miles

Years.	Months.																	
	January.		February.		March.		April.		May.		June.		July.		August.			
	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.		
1898 ...	5·7 N	1·0 E	5·0 N	2·5 W	5·0 N	4·5 W	1·6 N	5·7 W	1·5 N	7·8 W	4·2 S	9·8 W	3·7 S	13·8 W	1·9 S	14·7 W		
1899 ...	6·8 N	0·5 W	6·1 N	3·1 W	6·0 N	4·9 W	0·7 N	4·9 W	0·3 N	7·9 W	5·7 S	8·3 W	4·1 S	14·7 W	1·7 S	10·4 W		
1900 ...	6·5 N	1·5 W	7·0 N	3·9 W	5·2 N	5·2 W	2·6 N	5·5 W	3·5 N	7·1 W	2·8 S	8·5 W	1·8 S	13·0 W	3·7 S	15·5 W		
1901 ...	6·5 N	0·9 W	8·1 N	2·3 W	4·6 N	4·0 W	2·2 N	4·7 W	0·7 N	7·3 W	3·4 S	6·6 W	2·8 S	14·2 W	1·5 S	15·3 W		
1902 ...	6·4 N	1·3 W	6·0 N	3·0 W	3·1 N	4·5 W	3·1 N	6·5 W	1·4 N	7·5 W	6·4 S	5·9 W	4·7 S	12·1 W	1·1 S	10·6 W		
1903 ...	6·5 N	1·3 W	7·9 N	3·2 W	6·9 N	5·2 W	3·7 N	5·1 W	0·3 N	4·1 W	5·2 S	3·3 W	4·6 S	12·1 W	1·0 S	11·7 W		
1904 ...	6·2 N	1·4 W	4·9 N	2·2 W	5·4 N	5·2 W	2·5 N	6·6 W	0·4 S	6·7 W	3·6 S	10·1 W	3·1 S	15·2 W	3·1 S	13·0 W		
1905 ...	6·5 N	2·4 W	8·3 N	3·4 W	6·6 N	6·0 W	3·1 N	6·2 W	0·4 S	6·3 W	2·1 S	7·0 W	4·8 S	13·8 W	1·1 S	10·7 W		
1906 ...	6·0 N	1·1 W	5·6 N	3·2 W	5·4 N	5·7 W	5·2 N	6·7 W	1·2 S	6·5 W	4·8 S	5·7 W	4·8 S	10·9 W	1·7 S	8·6 W		
1907 ...	4·8 N	0·7 W	7·1 N	3·2 W	5·5 N	4·7 W	5·1 N	5·4 W	2·3 N	7·2 W	6·9 S	5·4 W	2·7 S	9·9 W	4·4 S	16·1 W		
1908 ...	4·6 N	0·3 W	6·8 N	3·0 W	6·4 N	5·1 W	3·0 N	5·5 W	0·3 N	7·1 W	4·7 S	6·1 W	4·6 S	15·6 W	4·2 S	14·5 W		
1909 ...	7·3 N	3·2 W	5·4 N	3·2 W	4·9 N	4·3 W	2·6 N	6·2 W	0·1 S	6·9 W	5·3 S	8·5 W	4·2 S	16·1 W	0·2 S	8·6 W		
1910 ...	6·0 N	1·1 W	5·5 N	1·6 W	4·9 N	4·1 W	4·2 N	6·4 W	2·5 N	8·0 W	8·8 S	2·8 W	2·4 S	10·4 W	1·4 S	12·0 W		
1911 ...	4·7 N	1·2 W	5·7 N	1·9 W	4·8 N	4·7 W	4·9 N	7·2 W	0·4 N	6·7 W	3·5 S	8·7 W	3·5 S	10·8 W	4·3 S	13·6 W		
Means ...	6·0 N	1·1 W	6·4 N	2·8 W	5·3 N	4·9 W	3·2 N	5·9 W	0·8 N	6·9 W	4·8 S	6·9 W	3·7 S	13·0 W	2·2 S	12·5 W		

of the Wind for each month, groups of months, and the whole year, during the period 1898 to 1911.

per hour.)

September.		October.		November.		December.		Means.							
								October to February.		March to May.		June to September.		Year.	
North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.
1·8 N	5·7 W	2·7 N	0·4 W	4·2 N	0·7 E	6·6 N	0·9 W	4·8 N	0·4 W	2·7 N	6·0 W	2·0 S	11·0 W	2·0 N	5·3 W
3·5 N	5·8 W	1·0 N	1·5 W	4·6 N	0·8 W	3·8 N	1·0 E	4·5 N	1·0 W	2·3 N	5·9 W	2·0 S	9·8 W	1·8 N	5·1 W
1·6 N	9·6 W	5·2 N	0·6 W	4·8 N	0·6 E	4·8 N	0·4 W	5·7 N	1·2 W	3·8 N	5·9 W	1·7 S	11·6 W	2·7 N	5·8 W
3·1 N	6·7 W	1·9 N	2·7 W	4·4 N	0·9 E		1·1 E	5·1 N	0·8 W	2·5 N	5·3 W	1·1 S	10·7 W	2·3 N	5·2 W
0·1 S	6·2 W	3·6 N	0·0 W	4·2 N	3·6 E	3·3 N	2·7 E	4·7 N	0·4 E	2·5 N	6·2 W	3·1 S	8·7 W	1·6 N	4·3 W
0·1 S	5·9 W	2·9 N	1·7 W	4·4 N	0·1 W	5·7 N	0·7 E	5·5 N	1·1 W	3·6 N	4·8 W	2·7 S	8·2 W	2·3 N	4·4 W
1·0 N	8·0 W	2·7 N	0·7 W	4·4 N	0·7 E	5·4 N	0·6 E	4·7 N	0·6 W	2·5 N	6·2 W	2·2 S	11·6 W	1·9 N	5·6 W
0·1 N	5·5 W	1·5 N	0·4 W	4·1 N	2·1 E	5·8 N	0·8 E	5·2 N	0·7 W	3·1 N	6·2 W	2·0 S	9·2 W	2·3 N	4·9 W
0·6 S	8·1 W	4·5 N	1·7 W	3·0 N	0·0	5·6 N	0·1 W	4·9 N	1·2 W	3·1 N	6·3 W	3·0 S	8·3 W	1·8 N	4·9 W
1·9 N	6·3 W	3·0 N	2·6 W	3·8 N	0·0	5·1 N	1·7 E	4·8 N	1·0 W	4·3 N	5·8 W	3·0 S	9·4 W	2·0 N	5·0 W
1·3 N	3·5 W	4·2 N	1·5 W	3·9 N	0·1 E	5·2 N	1·4 E	4·9 N	0·7 W	3·· N	5·9 W	3·0 S	9·9 W	1·8 N	5·1 W
0·3 S	4·7 W	4·6 N	2·6 W	3·5 N	0·6 E	4·4 N	0·5 W	5·0 N	1·8 W	2·5 N	5·8 W	2·5 S	9·5 W	1·9 N	5·3 W
0·1 N	5·2 W	3·8 N	2·3 W	3·5 N	2·0 E	4·1 N	1·0 E	4·6 N	0·4 W	3·9 N	6·2 W	3·1 S	7·6 W	1·8 N	4·2 W
1·0 S	8·3 W	2·3 N	2·6 W	3·0 N	0·2 E	3·9 N	1·1 E	3·9 N	0·9 W	3·4 N	6·2 W	3·1 S	10·3 W	1·4 N	5·4 W
0·9 N	6·4 W	3·1 N	1·5 W	4·0 N	0·8 E	4·9 N	0·7 E	4·9 N	0·8 W	3·1 N	5·9 W	2·4 S	9·7 W	2·0 N	5·1 W

TABLE X.—*Showing the mean hourly Velocities of the north or south and the east or west components*

(In miles

1898 to 1911.	Months.															
Bombay Civil Time hourly intervals.	January.		February.		March.		April.		May.		June.		July.		August.	
	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.
H. H.																
0 to 1	4·8 N	0·5 E	5·0 N	0·9 W	5·3 N	3·6 W	3·7 N	4·2 W	1·0 N	5·3 W	**5·7 S**	6·1 W	4·2 S	12·6 W	**2·9 S**	12·2 W
1 „ 2	4·6 N	1·0 E	5·0 N	0·6 W	5·4 N	3·1 W	3·5 N	3·6 W	0·9 N	4·8 W	5·3 S	5·9 W	4·1 S	13·0 W	2·9 S	12·3 W
2 „ 3	4·6 N	1·7 E	5·4 N	0·2 W	5·4 N	2·4 W	3·2 N	2·6 W	0·6 N	4·4 W	5·1 S	5·8 W	3·9 S	13·1 W	2·7 S	12·6 W
3 „ 4	4·8 N	2·5 E	5·5 N	0·5 E	5·1 N	1·4 W	2·9 N	1·7 W	0·7 N	4·0 W	4·8 S	5·7 W	4·0 S	13·0 W	2·5 S	12·6 W
4 „ 5	4·8 N	3·5 E	5·6 N	1·4 E	4·7 N	0·5 W	2·2 N	0·7 W	0·5 N	3·7 W	4·5 S	5·5 W	3·8 S	12·8 W	2·3 S	12·8 W
5 „ 6	4·5 N	4·2 E	5·3 N	2·2 E	4·0 N	0·6 E	1·8 N	0·1 E	0·4 N	3·1 W	4·4 S	5·3 W	3·7 S	12·7 W	2·1 S	12·5 W
6 „ 7	4·4 N	4·7 E	4·6 N	2·9 E	3·5 N	1·4 E	1·6 N	0·4 E	0·2 N	**2·6 W**	4·5 S	4·7 W	3·8 S	12·6 W	2·5 S	12·0 W
7 „ 8	4·0 N	5·4 E	4·1 N	3·7 E	**3·0 N**	1·9 E	1·7 N	**0·5 E**	0·1 N	2·8 W	4·5 S	**4·5 W**	3·8 S	12·3 W	2·2 S	11·8 W
8 „ 9	**3·8 N**	**6·1 E**	**3·9 N**	**4·8 E**	3·1 N	**2·0 E**	1·7 N	0·3 W	0·1 S	3·7 W	4·9 S	5·0 W	3·8 S	**12·2 W**	2·4 S	11·8 W
9 „ 10	3·8 N	5·5 E	3·9 N	3·9 E	3·2 N	0·1 W	**1·5 N**	2·4 W	**0·4 S**	5·1 W	4·9 S	5·5 W	3·6 S	12·4 W	2·4 S	11·6 W
10 „ 11	3·8 N	3·6 E	4·2 N	1·2 E	3·7 N	3·9 W	1·6 N	6·2 W	0·2 S	7·3 W	5·5 S	6·9 W	4·0 S	13·2 W	2·4 S	12·3 W
11 „ 12	4·1 N	0·6 W	4·9 N	3·4 W	4·5 N	7·9 W	2·1 N	8·8 W	0·0 S	8·8 W	5·1 S	7·9 W	4·0 S	13·3 W	2·3 S	12·9 W
12 „ 13	4·8 N	4·4 W	5·7 N	7·2 W	5·2 N	10·2 W	2·7 N	10·8 W	0·3 N	10·2 W	4·8 S	8·7 W	3·5 S	13·7 W	2·1 S	13·7 W
13 „ 14	5·6 N	7·0 W	6·3 N	9·4 W	6·0 N	11·5 W	3·4 N	12·3 W	0·9 N	11·3 W	4·5 S	9·2 W	3·5 S	13·9 W	1·9 S	13·8 W
14 „ 15	6·5 N	8·8 W	7·3 N	10·5 W	6·8 N	12·3 W	4·4 N	13·2 W	1·2 N	12·2 W	4·6 S	9·6 W	3·4 S	14·2 W	1·8 S	**14·0 W**
15 „ 16	7·8 N	**9·1 W**	8·5 N	**10·7 W**	7·8 N	**12·4 W**	5·0 N	**13·4 W**	1·5 N	**12·4 W**	4·2 S	**9·9 W**	3·2 S	**14·6 W**	1·7 S	14·0 W
16 „ 17	8·6 N	8·5 W	9·4 N	10·3 W	**8·2 N**	11·5 W	**5·1 N**	12·7 W	1·8 N	11·9 W	4·2 S	9·5 W	**3·0 S**	14·3 W	**1·6 S**	13·8 W
17 „ 18	9·4 N	7·6 W	9·9 N	9·3 W	8·0 N	11·8 W	4·9 N	11·3 W	**1·9 N**	10·7 W	**4·1 S**	8·9 W	3·1 S	13·7 W	1·6 S	13·1 W
18 „ 19	10·6 N	6·8 W	**10·4 N**	8·4 W	7·8 N	8·7 W	4·7 N	9·6 W	1·7 N	9·3 W	4·3 S	8·4 W	3·2 S	13·2 W	1·7 S	12·5 W
19 „ 20	**10·7 N**	5·8 W	10·3 N	6·8 W	7·0 N	7·0 W	4·2 N	7·7 W	1·4 N	8·0 W	4·6 S	7·4 W	3·4 S	12·8 W	1·8 S	12·0 W
20 „ 21	9·6 N	4·0 W	9·3 N	5·1 W	5·8 N	5·1 W	3·7 N	6·3 W	1·2 N	6·9 W	4·9 S	7·0 W	3·7 S	12·4 W	2·2 S	11·6 W
21 „ 22	7·5 N	2·0 W	7·2 N	2·8 W	4·6 N	3·8 W	3·5 N	5·6 W	1·2 N	6·2 W	5·1 S	6·3 W	3·7 S	12·2 W	2·4 S	**11·4 W**
22 „ 23	6·2 N	0·8 W	6·0 N	1·6 W	4·7 N	3·5 W	3·6 N	5·1 W	1·1 N	6·0 W	5·4 S	6·2 W	4·0 S	12·3 W	2·5 S	11·4 W
23 „ 24	5·4 N	0·3 W	5·3 N	1·3 W	4·9 N	3·6 W	3·6 N	4·6 W	0·9 N	5·8 W	5·4 S	6·0 W	**4·3 S**	12·3 W	2·7 S	11·6 W
Means ...	6·0 N	1·1 W	6·4 N	2·8 W	5·3 N	4·9 W	3·2 N	5·9 W	0·8 N	6·9 W	4·8 S	6·9 W	3·7 S	13·0 W	2·2 S	12·5 W

of the Wind for the average months, groups of months, and the year, during the period 1898 to 1911.

per hour.)

								Means.							
September.		October.		November.		December.		October to February.		March to May.		June to September.		Year.	
North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.	North or South.	East or West.
0·2 N	5·6 W	2·3 N	0·2 W	2·3 N	2·7 E	3·5 N	2·4 E	3·6 N	0·9 E	3·3 N	4·4 W	**3·1 S**	9·1 W	1·3 N	3·8 W
0·1 S	5·4 W	2·2 N	0·4 E	2·4 N	3·4 E	3·3 N	3·6 E	3·5 N	1·6 E	3·3 N	3·8 W	3·1 S	9·1 W	1·2 N	3·4 W
0·1 N	5·3 W	2·0 N	1·2 E	2·6 N	4·3 E	3·4 N	4·4 E	3·6 N	2·3 E	3·1 N	3·1 W	2·9 S	9·2 W	1·3 N	2·9 W
0·3 N	5·0 W	2·3 N	1·5 E	2·9 N	5·3 E	3·7 N	4·9 E	3·8 N	2·9 E	2·9 N	2·4 W	2·7 S	9·1 W	1·4 N	3·1 W
0·2 N	4·6 W	2·1 N	2·3 E	3·0 N	6·2 E	4·0 N	6·1 E	3·9 N	3·9 E	2·5 N	1·6 W	2·6 S	8·9 W	1·4 N	1·8 W
0·0 S	3·8 W	1·9 N	2·9 E	3·0 N	6·9 E	3·9 N	6·6 E	3·7 N	4·6 E	2·1 N	0·8 W	2·5 S	8·6 W	1·2 N	1·2 W
0·2 S	3·2 W	1·7 N	3·6 E	2·8 N	7·3 E	3·8 N	7·2 E	3·5 N	5·1 E	1·8 N	0·3 W	2·7 S	8·1 W	1·0 N	0·6 W
0·2 S	**2·8 W**	1·6 N	4·6 E	2·6 N	7·9 E	3·4 N	7·7 E	3·1 N	5·9 E	1·6 N	**0·1 W**	2·7 S	**7·8 W**	0·8 N	0·2 W
0·4 S	2·9 W	1·6 N	**4·8 E**	2·4 N	**8·2 E**	3·2 N	**8·4 E**	3·0 N	**6·5 E**	1·6 N	0·7 W	2·9 S	8·0 W	0·7 N	**0·1 W**
0·1 S	3·7 W	1·6 N	3·8 E	2·1 N	7·3 E	2·8 N	7·6 E	**2·8 N**	5·6 E	**1·4 N**	2·5 W	2·7 S	8·3 W	**0·6 N**	1·1 W
0·1 N	5·4 W	**1·4 N**	1·7 E	**1·9 N**	5·4 E	2·8 N	5·7 E	2·8 N	3·5 E	1·7 N	5·8 W	2·9 S	9·4 W	0·6 N	3·1 W
0·6 N	6·9 W	1·9 N	1·9 W	1·9 N	2·1 E	**2·7 N**	2·6 E	3·1 N	0·2 W	2·2 N	8·5 W	2·7 S	10·2 W	0·9 N	5·6 W
1·1 N	8·8 W	2·5 N	5·2 W	2·6 N	1·4 W	3·0 N	0·8 W	3·7 N	3·8 W	2·7 N	10·4 W	2·3 S	11·2 W	1·5 N	7·9 W
1·5 N	9·8 W	3·4 N	7·6 W	3·2 N	4·8 W	3·5 N	4·1 W	4·4 N	6·6 W	3·4 N	11·7 W	2·1 S	11·7 W	2·0 N	9·6 W
2·2 N	10·3 W	4·2 N	8·9 W	4·3 N	7·2 W	4·5 N	6·7 W	5·4 N	8·4 W	4·1 N	12·6 W	1·9 S	12·0 W	2·6 N	10·7 W
2·6 N	**10·6 W**	5·1 N	**9·2 W**	5·4 N	**8·5 W**	5·5 N	**8·1 W**	6·5 N	**9·1 W**	4·8 N	**12·7 W**	1·6 S	**12·3 W**	3·3 N	**11·1 W**
2·6 N	10·0 W	5·8 N	8·5 W	6·4 N	8·0 W	6·6 N	8·0 W	7·4 N	8·7 W	**5·0 N**	12·0 W	**1·5 S**	11·9 W	3·8 N	10·6 W
2·6 N	9·0 W	6·3 N	6·8 W	7·4 N	7·1 W	8·3 N	7·1 W	8·3 N	7·6 W	4·9 N	11·3 W	1·5 S	11·2 W	4·2 N	9·7 W
2·2 N	8·4 W	**6·4 N**	5·4 W	**8·4 N**	6·2 W	9·7 N	6·4 W	**9·1 N**	6·6 W	4·7 N	9·2 W	1·7 S	10·6 W	**4·4 N**	8·6 W
2·0 N	7·4 W	5·7 N	4·0 W	8·4 N	4·8 W	**9·9 N**	5·4 W	9·0 N	5·4 W	4·2 N	7·6 W	1·9 S	9·9 W	4·1 N	7·4 W
1·7 N	6·6 W	4·4 N	2·6 W	7·1 N	2·9 W	8·6 N	3·4 W	7·8 N	3·6 W	3·6 N	6·1 W	2·3 S	9·4 W	3·4 N	6·2 W
1·1 N	6·0 W	3·3 N	1·5 W	5·3 N	0·5 W	6·6 N	0·9 W	6·0 N	1·5 W	3·1 N	5·2 W	2·5 S	9·0 W	2·4 N	4·9 W
0·7 N	5·9 W	2·6 N	1·0 W	4·1 N	0·8 E	5·7 N	0·2 E	4·9 N	0·5 W	3·1 N	4·9 W	2·8 S	8·9 W	1·9 N	4·4 W
0·6 N	5·7 W	2·2 N	0·4 W	2·9 N	1·8 E	4·5 N	1·2 E	4·1 N	0·2 E	3·1 N	4·7 W	2·9 S	8·9 W	1·5 N	4·0 W
0·9 N	6·4 W	3·1 N	1·5 W	4·0 N	0·8 E	4·9 N	0·7 E	4·9 N	0·8 W	3·1 N	5·9 W	2·4 S	9·7 W	2·0 N	5·1 W

APPENDIX C.

COMPARISON OF SIMULTANEOUS ABSOLUTE VALUES AND VARIATIONS OF THE MAGNETIC ELEMENTS H, D AND V FOR THE YEARS 1904-1905 REGISTERED AT THE OLD AND NEW SITES AT COLABA AND ALIBAG.

It will be seen from the results given below in table I that a large difference in the absolute values of H obtains between the two sites. Each of the two years' results shows a difference of $510\gamma \equiv \cdot00510$ C. G. S., which is accepted as the true difference, Alibag indicating a lower value of H. In Declination, Alibag registers a more easterly deviation, and as the two years' results indicate a difference of about 1 minute, the mean of the two results, namely 53′ 33″, is accepted as the difference in the two sites. For Inclination similarly, Alibag shows a greater dip, the mean result of the two years being 1° 4′·7, contributing to a difference of 598γ in the vertical force, Alibag value standing higher.

A glance at tables II, III and IV giving the variations of the three elements H, D and V, will show that the march of the elements at Alibag may be regarded as almost precisely the same as at Colaba, agreeing to within one γ or two in the force variations and to within 0′·1 in the declination variations.

Thus with the adopted differences in the absolute values and the accepted concurrent runs of the variations, it may be presumed with a fair degree of certainty that the Alibag record which has begun to run from 1904 will, in future, preserve the continuity of the Bombay Colaba record which had run uninterruptedly from 1846 to 1905 and which owing to the electrification of the tram lines in the Bombay City had to be discontinued from April 1906.

TABLE I.—*Showing the differences in the Absolute Values of the Magnetic Elements at Colaba and Alibag for the years 1904 and 1905.*

	Absolute Horizontal Force in C.G.S. Unit.				Absolute Declination in Arc.				Mean Dip.	
	By Instrument No. 7.	Excess over Colaba of same epoch.	By Instrument No 3.	Excess over Colaba of same epoch.	By Instrument No. 7.	Excess over Colaba of same epoch	By Instrument No. 3.	Excess over Colaba of same epoch.	By Instrument No. 160.	Excess over Colaba of same epoch.
1	2	3	4	5	6	7	8	9	10	11
1904.										
January 1904 ...	·36875	−·00536	·36875	−·00536	° ′ ″ 1 10 57	° ′ ″ +0 54 14	° ′ ″ 1 11 46	° ′ ″ +0 55 3	° ′ 22 52·1	° ′ +1 3·6
February „ ...	·36878	·00524	·36875	·00528	1 10 35	0 54 15	1 10 50	0 54 30	22 52·0	1 3·0
March „ ...	·36891	·00507	·36888	·00511	1 10 45	0 54 15	1 10 40	0 54 10	22 51·2	1 3·1
April „ ...	·36879	·00501	·36873	·00506	1 10 30	0 54 23	1 9 58	0 53 51	22 53·1	1 5·2
May „ ...	·36879	·00509	·36877	·00511	1 9 54	0 54 19	1 9 46	0 54 11	22 52·7	1 5·1
June „ ...	·36884	·00507	·36879	·00511	1 9 26	0 53 57	1 9 51	0 54 22	22 54·9	1 6·0
July „ ...	·36888	·00502	·36881	·00508	1 9 3	0 53 32	1 9 15	0 53 44	22 55·3	1 6·0
August „ ...	·36885	·00507	·36882	·00507	1 8 39	0 53 29	1 9 10	0 54 0	22 55·7	1 7·1
September „ ...	·36881	·00509	·36880	·00511	1 8 35	0 53 51	1 7 40	0 52 56	22 56·7	1 7·6
October „ ...	·36878	·00497	·36876	·00500	1 8 41	0 53 57	1 7 17	0 52 33	22 56·8	1 6·6
November „ ...	·36879	·00504	·36876	·00506	1 9 5	0 54 44	1 7 29	0 53 8	22 57·7	1 6·2
December „ ...	·36892	·00503	·36886	·00509	1 8 3	0 53 24	1 6·59	0 52 20	22 58·4	1 5·7
Annual Mean ...	·36882	−·00509	·36879	−·00512	1 9 31	+0 54 2	1 9 14	0 53 44	22 54·7	+1 5·4
1905.										
January 1905 ...	·36873	−·00510	·36867	−·00516	1 8 24	+0 54 7	1 6 41	+0 52 24	22 58·9	+1 5·2
February „ ...	·36872	·00507	·36871	·00508	1 8 22	0 54 13	1 7 8	0 52 59	22 58·6	1 3·3
March „ ...	·36875	·00510	·36874	·00511	1 7 57	0 53 51	1 7 16	0 53 10	22 59·1	1 3·9
April „ ...	·36879	·00495	·36872	·00502	1 7 34	0 53 10	1 6·25	0 52 1	23 0·4	1 6·2
May „ ...	·36885	·00500	·36883	·00502	1 7 18	0 53 20	1 6 5	0 52 7	23 0·2	1 4·9
June „ ...	·36879	·00509	·36877	·00511	1 6 59	0 52 32	1 6 5	0 51 38	23 0·9	1 4·5
July „ ...	·36880	·00508	·36875	·00513	1 6 23	0 52 43	1 5 43	0 52 3	23 1·5	1 2·0
August „ ...	·36869	·00513	·36867	·00515	1 6 29	0 52 30	1 5 32	0 51 33	23 2·8	1 3·2
September „ ...	·36864	·00516	·36863	·00517	1 6 13	0 52 17	1 5 17	0 51 21	23 3·6	1 2·5
October „ ...	·36874	·00504	·36869	·00509	1 6 7	0 52 21	1 5 7	0 51 21	23 3·5	1 3·6
November „ ...	·36852	·00521	·36853	·00520	1 6 40	0 53 8	1 5 44	0 52 12	23 5·0	1 4·9
December „ ...	·36868	·00526	·36867	·00527	1 6 15	0 52 46	1 5 13	0 51 44	23 4·7	1 3·8
Annual Mean ...	·36872	−·00510	·36870	−·00512	1 7 3	+0 53 5	1 6 1	+0 52 3	23 1·6	+1 4·0
Means for the whole period ...	...	−·00510	...	−·00512	.....	+0 53 33	.....	+0 52 53	.....	+1 4·7

Instrument No. 7 has been accepted as the standard instrument at Alibag, instrument No. 3 being considered auxiliary.

TABLE II.—*Showing the comparison of mean monthly Diurnal Variations of Horizontal Force at Colaba and Alibag.*

Unity = 1γ = ·00001 C. G. S. Unit.

Hours.		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
June 1904 ...	Colaba ...	−11	−11	−10	−10	−10	−9	−5	+3	+15	+23	+32	+35	+31	+24	+12	0	−10	−15	−16	−15	−15	−14	−13	−12
	Alibag ...	−11	−11	−10	−10	−10	−9	−5	+3	+13	+21	+33	+36	+31	+24	+12	0	−10	−15	−16	−16	−16	−14	−13	−12
	Excesses ...	0	0	0	0	0	0	0	0	−2	−2	+1	+1	0	0	0	0	0	0	0	−1	−1	0	0	0
July 1904 ...	Colaba ...	−10	−10	−11	−11	−11	−11	−8	−2	+7	+18	+29	+33	+33	+27	+16	+3	−7	−12	−13	−13	−13	−14	−13	−10
	Alibag ...	−10	−10	−11	−11	−11	−10	−8	−2	+7	+18	+29	+33	+33	+27	+16	+3	−7	−12	−13	−13	−13	−14	−13	−10
	Excesses ...	0	0	0	0	0	+1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
August 1904 ...	Colaba ...	−10	−9	−9	−8	−6	−7	−5	−6	0	+13	+23	+28	+28	+24	+14	+7	0	−5	−8	−11	−13	−15	−13	−12
	Alibag ...	−10	−9	−9	−8	−6	−7	−5	−6	0	+13	+23	+28	+29	+24	+14	+7	0	−6	−9	−11	−14	−15	−13	−12
	Excesses ...	0	0	0	0	0	0	0	0	0	0	0	0	+1	0	0	0	0	−1	−1	0	−1	0	0	0
September 1904.	Colaba ...	−8	−8	−6	−5	−5	−5	−8	−10	−3	+12	+21	+28	+27	+19	+11	+3	−3	−4	−7	−9	−8	−10	−10	−9
	Alibag ...	−8	−8	−6	−6	−5	−5	−8	−10	−3	+12	+22	+28	+27	+20	+10	+2	−3	−5	−8	−9	−9	−11	−11	−9
	Excesses ...	0	0	0	−1	0	0	0	0	0	0	+1	0	0	+1	−1	−1	0	−1	−1	0	−1	−1	−1	0
October 1904 ...	Colaba ...	−8	−7	−6	−5	−5	−4	−4	−2	+5	+16	+24	+30	+27	+17	+7	+1	−5	−7	−10	−12	−14	−14	−13	−11
	Alibag ...	−8	−7	−6	−5	−5	−4	−4	−1	+6	+17	+25	+31	+26	+16	+7	0	−5	−8	−10	−13	−14	−14	−13	−11
	Excesses ...	0	0	0	0	0	0	0	+1	+1	+1	+1	+1	−1	−1	0	−1	0	−1	0	−1	0	0	0	0
November 1904.	Colaba ...	−8	−7	−7	−5	−5	−3	−1	+7	+14	+24	+30	+30	+22	+11	+3	−2	−7	−10	−12	−16	−16	−17	−14	−10
	Alibag ...	−9	−6	−7	−5	−5	−3	0	+8	+15	+25	+32	+31	+22	+10	+2	−3	−8	−11	−13	−17	−18	−17	−14	−10
	Excesses ...	−1	+1	0	0	0	0	+1	+1	+1	+1	+2	+1	0	−1	−1	−1	−1	−1	−1	−1	−2	0	0	0
December 1904.	Colaba ...	−7	−5	−5	−5	−6	−4	−2	+5	+13	+19	+24	+22	+17	+9	+3	−3	−8	−9	−10	−9	−11	−10	−10	−8
	Alibag ...	−7	−6	−6	−6	−6	−4	−1	+6	+14	+20	+25	+23	+17	+9	+2	−3	−8	−10	−10	−10	−11	−10	−11	−9
	Excesses ...	0	−1	−1	−1	0	0	+1	+1	+1	+1	+2	+1	0	0	−1	0	0	−1	0	−1	0	0	−1	−1
January 1905 ...	Colaba ...	−11	−6	−6	−6	−5	−3	−2	+3	+9	+13	+16	+20	+17	+13	+7	+3	−3	−7	−7	−7	−9	−10	−10	−12
	Alibag ...	−11	−6	−6	−6	−5	−3	−2	+4	+10	+14	+17	+21	+18	+13	+7	+2	−4	−7	−7	−8	−10	−11	−10	−12
	Excesses ...	0	0	0	0	0	0	0	+1	+1	+1	+1	+1	+1	0	0	−1	0	0	0	−1	−1	−1	0	0
February 1905 .	Colaba ...	−12	−11	−8	−6	−7	−6	−5	+0	+8	+18	+22	+29	+29	+21	+11	+2	−4	−8	−9	−10	−13	−15	−14	−12
	Alibag ...	−12	−11	−8	−6	−7	−6	−4	+1	+9	+19	+23	+30	+29	+20	+11	+1	−5	−9	−10	−11	−13	−16	−14	−12
	Excesses ...	0	0	0	0	0	0	+1	+1	+1	+1	+1	+1	0	−1	0	−1	−1	−1	−1	−1	0	−1	0	0
March 1905 ...	Colaba ...	−14	−14	−12	−14	−14	−13	−10	−2	+10	+25	+39	+42	+37	+27	+14	+1	−6	−8	−9	−15	−14	−16	−18	−16
	Alibag ...	−14	−14	−12	−13	−14	−13	−10	−2	+11	+26	+40	+42	+37	+26	+13	0	−6	−9	−9	−16	−14	−17	−18	−16
	Excesses ...	0	0	0	+1	0	0	0	0	+1	+1	+1	0	0	−1	−1	−1	0	−1	0	−1	0	−1	0	0
April 1905 ...	Colaba ...	−14	−14	−14	−11	−9	−10	−10	−7	+5	+21	+35	+38	+33	+25	+14	+4	−2	−6	−8	−12	−14	−16	−15	13
	Alibag ...	−14	−15	−14	−11	−9	−10	−10	−6	+7	+24	+37	+38	+32	+25	+13	+3	−3	−7	−8	−12	−14	−16	−15	−13
	Excesses ...	0	−1	0	0	0	[illegible]	0	+1	+2	+3	+2	0	−1	0	−1	−1	−1	−1	0	−0	0	0	0	0
May 1905 ...	Colaba ...	−11	−13	−12	−11	−11	−11	−10	−6	+4	+16	+28	+33	+30	+25	+16	+7	0	−6	−10	−11	−11	−12	−13	−13
	Alibag ...	−11	−13	−12	−11	−11	−11	−10	−5	+5	+17	+29	+33	+30	+24	+16	+6	−1	−7	−10	−11	−11	−12	−13	−13
	Excesses ...	0	0	0	0	0	0	0	+1	+1	+1	+1	0	0	−1	0	−1	−1	−1	0	0	0	0	0	0

TABLE II (continued).—*Showing the comparison of mean monthly Diurnal Variations of Horizontal Force at Colaba and Alibag.*

Unity = 1γ = ·00001 C. G. S. Unit.

Hours.		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
June 1905 ...	Colaba ...	−13	−12	−11	−12	−11	−9	−6	+2	+12	+22	+31	+35	+34	+28	+18	+4	−8	−13	−14	−14	−15	−16	−14	−15
	Alibag ...	−14	−12	−11	−12	−12	−10	−6	+2	+12	+23	+32	+35	+34	+28	+17	+3	−8	−14	−14	−15	−15	−16	−14	−15
	Excesses ...	−1	0	0	0	−1	−1	0	0	0	+1	+1	0	0	0	−1	−1	0	−1	0	−1	0	0	0	0
July 1905 ...	Colaba ...	−12	−12	−11	−12	−10	−10	−8	−1	+6	+19	+29	+34	+30	+25	+18	+8	−3	−9	−14	−14	−14	−13	−13	−12
	Alibag ...	−12	−12	−11	−12	−11	−10	−7	0	+7	+20	+30	+34	+30	+25	+18	+7	−3	−10	−14	−15	−15	−14	−13	−12
	Excesses ...	0	0	0	0	−1	0	+1	+1	+1	+1	+1	0	0	0	0	−1	0	−1	0	−1	−1	−1	0	0
August 1905 ...	Colaba ...	−10	−8	−8	−8	−8	−7	−4	+2	+12	+22	+29	+32	+26	+18	+10	+2	−5	−11	−14	−15	−15	−14	−13	−12
	Alibag ...	−10	−9	−9	−8	−8	−7	−3	+2	+12	+23	+30	+32	+26	+18	+10	+2	−6	−11	−14	−16	−15	−14	−14	−12
	Excesses ...	0	−1	−1	0	0	0	+1	0	0	+1	+1	0	0	0	0	0	−1	0	0	−1	0	0	−1	0
September 1905.	Colaba ...	−6	−6	−6	−5	−6	−6	−9	−11	−2	+14	+25	+29	+27	+21	+11	+1	−5	−7	−9	−11	−11	−12	−10	−8
	Alibag ...	−6	−6	−6	−5	−6	−6	−9	−10	−1	+15	+26	+30	+27	+20	+10	+1	−5	−7	−9	−12	−11	−13	−11	−8
	Excesses ...	0	0	0	0	0	0	0	+1	+1	+1	+1	+1	0	−1	−1	0	0	0	0	−1	0	−1	−1	0
October 1905 ...	Colaba ...	−12	−11	−9	−9	−10	−9	−9	−7	+2	+15	+28	+37	+35	+24	+14	+5	−3	−6	−7	−10	−13	−15	−15	−13
	Alibag ...	−12	−11	−10	−10	−10	−9	−9	−7	+3	+16	+29	+38	+35	+24	+13	+4	−4	−7	−8	−11	−13	−15	−15	−13
	Excesses ...	0	0	−1	−1	0	0	0	0	+1	+1	+1	+1	0	0	−1	−1	−1	−1	−1	−1	0	0	0	0
November 1905.	Colaba ...	−15	−14	−15	−13	−11	−10	−4	+7	+19	+29	+37	+41	+29	+16	+7	−1	−6	−7	−10	−12	−14	−18	−17	−17
	Alibag ...	−15	−15	−15	−13	−11	−9	−4	+8	+20	+31	+39	+42	+30	+16	+7	−2	−7	−8	−11	−12	−15	−19	−17	−17
	Excesses ...	0	−1	0	0	0	+1	0	+1	+1	+2	+2	+1	+1	0	0	−1	−1	−1	−1	0	−1	−1	0	0
December 1905.	Colaba ...	−10	−10	−8	−8	−8	−7	−4	+3	+9	+17	+22	+25	+21	+13	+8	+3	−2	−3	−5	−7	−9	−12	−13	−12
	Alibag ...	−10	−10	−9	−8	−8	−7	−4	+3	+10	+17	+23	+25	+21	+13	+8	+3	−3	−4	−6	−7	−10	−13	−13	−12
	Excesses ...	0	0	−1	0	0	0	0	0	+1	0	+1	0	0	0	0	0	−1	−1	−1	0	−1	−1	0	0
January 1906 ...	Colaba ...	−7	−6	−6	−5	−5	−5	−2	0	+5	+11	+15	+19	+18	+12	+8	+3	−1	−3	−6	−7	−9	−10	−10	−10
	Alibag ...	−7	−6	−6	−5	−5	−5	−2	0	+6	+11	+16	+20	+18	+12	+8	+3	−1	−4	−6	−8	−9	−11	−11	−10
	Excesses ...	0	0	0	0	0	0	0	0	+1	0	+1	+1	0	0	0	0	0	−1	0	−1	0	−1	−1	0
February 1906.	Colaba ...	−14	−11	−9	−7	−7	−5	−2	+4	+12	+20	+25	+29	+26	+19	+10	+1	−5	−7	−8	−12	−15	−15	−12	−13
	Alibag ...	−14	−11	−9	−7	−7	−5	−1	+4	+12	+21	+26	+30	+27	+19	+10	+1	−5	−7	−9	−12	−15	−16	−18	−13
	Excesses ...	0	0	0	0	0	0	+1	0	0	+1	+1	+1	+1	0	0	0	0	0	−1	0	0	−1	0	0
March 1906 ...	Colaba ...	−13	−13	−13	−12	−12	−11	−9	−5	+6	+19	+32	+39	+37	+28	+17	+5	−3	−7	−10	−13	−14	−16	−15	−14
	Alibag ...	−14	−13	−13	−12	−12	−11	−9	−4	+7	+22	+33	+39	+36	+28	+16	+5	−4	−8	−10	−13	−15	−16	−15	−15
	Excesses ...	−1	0	0	0	0	0	0	+1	+1	+3	+1	0	−1	0	−1	0	−1	−1	0	0	−1	0	0	−1
Whole period .	Colaba ...	−11	−10	−9	−9	−8	−7	−6	−1	+8	+18	+27	+31	+28	+20	+11	+3	−4	−8	−10	−12	−13	−14	−13	−12
	Alibag ...	−11	−10	−9	−9	−8	−7	−6	−1	+8	+19	+28	+32	+28	+20	+11	+2	−5	−8	−10	−12	−13	−14	−14	−12
	Excesses ...	0	0	0	0	0	0	0	0	0	+1	+1	+1	0	0	0	−1	−1	0	0	0	0	0	−1	0

Table III.—Showing the comparison of mean monthly Diurnal Variation of Declination at Colaba and at Alibag.

Unity = 1 minute of arc.

Hours.		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
June 1904 ...	Colaba ...	+0·1	+0·2	+0·2	+0·3	+0·3	+0·7	+1·8	+2·5	+2·2	+1·1	−0·5	−1·7	−2·2	−2·2	−1·7	−0·9	−0·1	+0·2	+0·2	−0·1	−0·3	−0·2	0	+0·1
	Alibag ...	+0·2	+0·3	+0·3	+0·3	+0·4	+0·7	+1·9	+2·5	+2·2	+1·1	−0·7	−1·9	−2·4	−2·4	−1·7	−0·8	0	+0·3	+0·2	−0·1	−0·2	−0·1	0	+0·1
	Excesses ...	+0·1	+0·1	+0·1	0	+0·1	0	+0·1	0	0	0	−0·2	−0·2	−0·2	−0·2	0	+0·1	+0·1	+0·1	0	0	+0·1	+0·1	0	0
July 1904 ...	Colaba ...	0	+0·1	+0·2	+0·3	+0·4	+0·8	+1·9	+2·5	+2·3	+1·1	−0·2	−1·4	−2·2	−2·3	−1·8	−0·9	0	+0·3	+0·2	−0·3	−0·4	−0·3	−0·2	−0·1
	Alibag ...	0	+0·1	+0·3	+0·4	+0·4	+0·8	+2·0	+2·7	+2·4	+1·1	−0·4	−1·6	−2·4	−2·4	−1·9	−0·9	0	+0·3	+0·2	−0·3	−0·3	−0·3	−0·2	−0·1
	Excesses ...	0	0	+0·1	+0·1	0	0	+0·1	+0·2	+0·1	0	−0·2	−0·2	−0·2	−0·1	−0·1	0	0	0	0	0	+0·1	0	0	0
August 1904 ...	Colaba ...	0	+0·1	+0·2	+0·2	+0·3	+0·7	+1·9	+2·6	+2·3	+0·9	−0·8	−1·9	−2·5	−2·2	−1·4	−0·4	+0·2	+0·4	+0·2	−0·2	−0·3	−0·2	−0·2	0
	Alibag ...	+0·1	+0·1	+0·3	+0·3	+0·4	+0·8	+2·1	+2·8	+2·4	+0·8	−1·2	−2·3	−2·7	−2·5	−1·5	−0·4	+0·3	+0·5	+0·2	−0·2	−0·2	−0·2	−0·1	0
	Excesses ...	+0·1	0	+0·1	+0·1	+0·1	+0·1	+0·2	+0·2	+0·1	−0·1	−0·4	−0·4	−0·2	−0·3	−0·1	0	+0·1	0·1	0	0	−0·1	0	+0·1	0
September 1904.	Colaba ...	+0·1	+0·2	+0·2	+0·2	+0·3	+0·5	+1·5	+2·5	+2·1	+0·6	−0·7	−2·1	−2·7	−2·2	−1·1	0	+0·5	+0·3	0	−0·1	−0·2	−0·1	0	0
	Alibag ...	+0·2	+0·3	+0·3	+0·3	+0·4	+0·6	+1·7	+2·6	+2·2	+0·6	−1·1	−2·5	−2·9	−2·4	−1·2	0	+0·5	+0·3	0	0	−0·1	−0·1	0	+0·1
	Excesses ...	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·2	+0·1	+0·1	0	−0·4	−0·4	−0·2	−0·2	−0·1	0	0	0	0	+0·1	+0·1	0	0	+0·1
October 1904...	Colaba ...	+0·2	+0·2	+0·1	0	0	−0·1	+0·2	+0·7	+0·7	+0·3	−0·2	−1·0	−1·3	−0·9	−0·2	+0·4	+0·5	+0·1	0	0	0	0	+0·1	+0·2
	Alibag ...	+0·2	+0·2	+0·2	+0·1	0	0	+0·3	+0·8	+0·8	+0·3	−0·5	−1·2	−1·5	−0·9	−0·2	+0·4	+0·5	+0·1	0	0	0	0	+0·1	+0·2
	Excesses ...	0	0	+0·1	+0·1	0	+0·1	+0·1	+0·1	+0·1	0	−0·3	−0·2	−0·2	0	0	0	0	0	0	0	0	0	0	0
November 1904.	Colaba	+0·1	+0·1	0	−0·1	−0·2	−0·3	−0·4	−0·3	0	0	−0·1	−0·5	−0·2	+0·4	+0·6	+0·4	−0·2	0	0	+0·1	+0·1	0	0	+0·1
	Alibag ...	+0·2	+0·1	+0·1	0	−0·1	−0·2	−0·4	−0·2	0	0	−0·5	−0·8	−0·4	+0·3	+0·6	+0·5	+0·3	+0·1	0	+0·1	+0·1	0	+0·1	+0·1
	Excesses ...	+0·1	0	+0·1	+0·1	+0·1	+0·1	0	+0·1	0	0	−0·4	−0·3	−0·2	−0·1	0	+0·1	+0·1	+0·1	0	0	0	0	+0·1	0
December 1904.	Colaba ...	+0·2	+0·2	0	−0·1	−0·2	−0·4	−0·5	−0·7	−0·5	−0·3	−0·1	−0·4	−0·3	+0·2	+0·6	+0·6	+0·4	+0·2	+0·2	+0·3	+0·2	+0·1	+0·1	+0·2
	Alibag ...	+0·2	+0·2	+0·1	0	−0·2	−0·3	−0·4	−0·7	−0·5	−0·3	−0·4	−0·5	−0·4	+0·2	+0·6	+0·6	+0·4	+0·2	+0·2	+0·3	+0·2	+0·1	+0·2	+0·2
	Excesses ...	0	0	+0·1	+0·1	0	+0·1	+0·1	0	0	0	−0·3	−0·1	−0·1	0	0	0	0	0	0	0	0	0	0	+0·1	0
January 1905...	Colaba ...	+0·1	0	−0·2	−0·3	−0·5	−0·6	−0·7	−0·9	−0·1	+0·8	+1·2	+0·6	0	−0·2	−0·2	0	+0·2	−0·1	0	+0·1	+0·1	+0·1	+0·1	+0·2
	Alibag ...	+0·2	+0·1	−0·1	−0·2	−0·4	−0·5	−0·6	−0·8	0	+1·0	+0·9	+0·4	−0·2	−0·3	−0·2	−0·1	+0·2	+0·1	+0·1	+0·2	−0·2	+0·1	+0·1	+0·2
	Excesses ...	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·2	−0·3	−0·2	−0·2	−0·1	0	−0·1	0	0	+0·1	+0·1	+0·1	0	0	0
February 1905 .	Colaba ...	0	−0·1	−0·2	−0·3	−0·5	−0·6	−0·7	−0·3	+0·8	+1·6	+1·7	+0·7	−0·2	−0·6	−0·6	−0·4	−0·2	−0·1	−0·2	0	0	0	0	0
	Alibag ...	+0·1	0	−0·1	−0·3	−0·5	−0·6	−0·6	−0·3	+0·9	+1·8	+1·5	+0·6	−0·3	−0·7	−0·6	−0·5	−0·2	−0·1	−0·2	0	+0·1	0	+0·1	0
	Excesses ...	+0·1	+0·1	+0·1	0	0	0	+0·1	0	+0·1	+0·2	−0·2	−0·1	−0·1	−0·1	0	−0·1	0	0	0	0	+0·1	0	+0·1	0
March 1905 ...	Colaba ...	0	0	−0·1	−0·1	−0·2	−0·3	−0·2	+0·6	+1·3	+1·4	+1·0	0	−0·9	−1·1	−0·6	0	+0·2	0	−0·2	−0·2	−0·2	−0·2	−0·2	0
	Alibag ...	0	0	0	−0·1	−0·1	−0·2	−0·1	+0·7	+1·4	+1·5	0·7	−0·3	−1·1	−1·2	−0·7	0	+0·2	0	−0·2	−0·1	−0·1	−0·1	−0·1	0
	Excesses ...	0	0	+0·1	0	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	−0·3	−0·3	−0·2	−0·1	−0·1	0	0	0	0	+0·1	+0·1	+0·1	+0·1	0
April 1905 ...	Colaba ...	+0·1	+0·2	+0·2	0	0	+0·7	+1·7	+2·1	+1·7	+0·8	−0·6	−1·7	−1·8	−1·3	−0·7	−0·2	+0·1	−0·2	−0·2	−0·3	−0·2	−0·1	0
	Alibag ...	+0·1	+0·2	+0·2	+0·1	+0·1	+0·9	+1·9	+2·2	+1·7	+0·5	−0·9	−1·9	−2·0	−1·4	−0·8	−0·2	0	−0·2	−0·2	−0·3	−0·2	0	0	0
	Excesses ...	0	0	0	+0·1	+0·1	+0·1	+0·2	+0·2	+0·1	0	−0·3	−0·3	−0·2	−0·2	−0·1	−0·1	0	−0·1	0	0	0	0	+0·1	0
May 1905 ...	Colaba ...	+0·2	+0·2	+0·2	+0·2	+0·1	+0·4	+1·5	+2·2	+2·2	+1·3	+0·1	−1·0	−2·0	−2·2	−1·7	−1·0	−0·3	+0·2	+0·1	−0·3	−0·3	−0·2	0	+0·1
	Alibag ...	+0·2	+0·3	+0·3	+0·2	+0·2	+0·5	+1·7	+2·4	+2·3	+1·3	−0·1	−1·3	−2·2	−2·3	−1·8	−1·0	−0·2	+0·2	+0·1	−0·3	−0·3	−0·2	0	+0·1
	Excesses ...	0	+0·1	+0·1	0	+0·1	+0·1	+0·2	+0·2	+0·1	0	−0·2	−0·3	−0·2	−0·1	−0·1	0	+0·1	0	0	0	0	0	0	0

Table III (continued).—*Showing the comparison of mean monthly Diurnal Variation of Declination at Colaba and at Alibag.*

Unity = 1 minute of arc.

Hours.		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
June 1905 ...	Colaba ...	+0·2	+0·3	+0·4	+0·3	+0·4	+0·7	+1·8	+2·4	+2·2	+1·1	−0·2	−1·6	−2·3	−2·3	−1·6	−0·9	−0·2	0	+0·1	−0·2	−0·3	−0·1	0	+0·1
	Alibag ...	+0·3	+0·3	+0·4	+0·4	+0·4	+0·7	+1·9	+2·6	+2·2	+1·1	−0·5	−1·8	−2·6	−2·4	−1·7	−0·8	−0·2	+0·1	+0·1	−0·2	−0·3	−0·1	0	+0·2
	Excesses ...	+0·1	0	0	+0·1	0	0	+0·1	+0·2	0	0	−0·3	−0·2	−0·3	−0·1	−0·1	+0·1	0	+0·1	0	0	0	0	0	+0·1
July 1905 ...	Colaba ...	+0·2	+0·3	+0·3	+0·3	+0·4	+0·7	+1·9	+2·4	+2·1	+0·9	−0·4	−1·6	−2·2	−2·1	−1·7	−1·1	−0·5	−0·1	+0·1	−0·1	+0·1	−0·1	0	+0·1
	Alibag ...	+0·3	+0·4	+0·4	+0·5	+0·5	+0·9	+2·1	+2·6	+2·2	+0·9	−0·7	−1·9	−2·4	−2·2	−1·8	−1·1	−0·5	0	+0·1	−0·1	−0·2	0	+0·1	+0·2
	Excesses ...	+0·1	+0·1	+0·1	+0·2	+0·1	+0·2	+0·2	+0·2	+0·1	0	−0·3	−0·3	−0·2	−0·1	−0·1	0	0	+0·1	0	0	−0·3	+0·1	+0·1	+0·1
August 1905 ...	Colaba ...	0	0	+0·1	+0·2	+0·3	+0·7	+2·0	+2·9	+2·5	+0·9	−0·8	−2·2	−2·7	−2·4	−1·5	−0·5	+0·3	+0·6	+0·3	−0·1	−0·1	−0·2	−0·1	0
	Alibag ...	0	+0·1	+0·2	+0·2	+0·3	+0·8	+2·2	+3·0	+2·6	+0·9	−1·2	−2·5	−2·9	−2·5	−1·6	−0·6	+0·3	+0·7	+0·3	−0·1	−0·1	−0·1	−0·1	0
	Excesses ...	0	+0·1	+0·1	0	0	+0·1	+0·2	+0·1	+0·1	0	−0·4	−0·3	−0·2	−0·1	−0·1	−0·1	0	+0·1	0	0	0	+0·1	0	0
September 1905	Colaba ...	+0·1	+0·2	+0·3	+0·3	+0·4	+0·7	+1·9	+2·8	+2·1	+0·4	−1·1	−2·6	−3·1	−2·5	−1·3	0	+0·7	+0·6	+0·1	0	0	0	0	+0·1
	Alibag ...	+0·1	+0·2	+0·3	+0·4	+0·5	+0·8	+2·2	+3·0	+2·1	+0·3	−1·5	−2·9	−3·4	−2·7	−1·4	0	+0·8	+0·7	+0·2	0	0	0	0	+0·1
	Excesses ...	0	0	0	+0·1	+0·1	+0·1	+0·3	+0·2	0	−0·1	−0·4	−0·3	−0·3	−0·2	−0·1	0	+0·1	+0·1	+0·1	0	0	0	0	0
October 1905	Colaba ...	+0·2	+0·1	+0·1	+0·1	+0·1	+0·1	+0·5	+1·5	+1·7	+0·9	−0·3	−1·6	−2·0	−1·5	−0·5	+0·4	+0·6	0	−0·3	−0·1	0	−0·1	0	+0·1
	Alibag ...	+0·2	+0·2	+0·2	+0·1	+0·1	+0·2	+0·6	+1·6	+1·8	+0·9	−0·6	−1·9	−2·2	−1·6	−0·5	+0·4	+0·6	0	−0·2	−0·1	0	−0·1	0	+0·1
	Excesses ...	0	+0·1	+0·1	0	0	+0·1	+0·1	+0·1	+0·1	0	−0·3	−0·3	−0·2	−0·1	0	0	0	0	+0·1	0	0	0	0	0
November 1905	Colaba ...	+0·4	+0·4	+0·3	0	−0·1	−0·4	−0·6	−0·4	0	+0·2	+0·1	−0·5	−0·4	0	+0·2	+0·3	0	−0·3	−0·2	0	0	+0·1	+0·2	+0·4
	Alibag ...	+0·5	+0·5	+0·4	+0·1	−0·1	−0·3	−0·6	−0·4	0	+0·2	−0·2	−0·8	−0·5	0	+0·2	+0·3	+0·1	−0·3	−0·1	+0·1	+0·1	+0·1	+0·2	+0·4
	Excesses ...	+0·1	+0·1	+0·1	+0·1	0	+0·1	0	0	0	0	−0·3	−0·3	−0·1	0	0	0	+0·1	0	+0·1	+0·1	+0·1	0	0	0
December 1905.	Colaba ...	+0·1	+0·1	+0·1	0	−0·2	−0·3	−0·4	−0·6	−0·1	+0·4	+0·6	+0·1	−0·1	0	0	0	0	−0·1	0	+0·1	+0·1	+0·1	0	+0·1
	Alibag ...	+0·2	+0·2	+0·2	+0·1	−0·1	−0·2	−0·4	−0·6	0	+0·4	+0·2	−0·1	−0·2	−0·1	0	0	+0·1	−0·1	0	+0·1	+0·1	+0·1	+0·1	+0·1
	Excesses ...	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	0	0	+0·1	0	−0·4	−0·2	−0·1	−0·1	0	0	+0·1	0	0	0	0	0	+0·1	0
January 1906...	Colaba ...	0	0	−0·1	−0·2	−0·4	−0·5	−0·5	−0·3	+0·8	+1·6	+1·2	0	−0·2	−0·3	−0·5	−0·4	−0·1	−0·1	−0·2	+0·1	+0·1	0	−0·1	0
	Alibag ...	0	0	+0·1	−0·1	−0·3	−0·4	−0·4	−0·2	+0·9	+1·7	+0·9	−0·1	−0·4	−0·4	−0·5	−0·5	−0·1	−0·1	−0·2	+0·1	+0·1	0	−0·1	0
	Excesses ...	0	0	+0·2	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	−0·3	−0·1	−0·3	−0·1	0	−0·1	0	0	0	0	0	0	0	0
February 1906.	Colaba ...	+0·2	+0·2	+0·1	−0·2	−0·4	−0·6	−0·7	−0·6	+0·3	+1·1	+1·3	+0·4	−0·2	0·4	−0·4	−0·3	−0·1	−0·1	−0·2	0	+0·1	+0·1	+0·2	+0·2
	Alibag ...	+0·3	+0·2	+0·2	−0·1	−0·3	−0·5	−0·7	−0·6	+0·4	+1·1	+1·0	+0·2	−0·4	−0·5	−0·4	−0·3	−0·1	−0·1	−0·2	0	+0·1	+0·1	+0·2	+0·2
	Excesses ...	+0·1	0	+0·1	+0·1	+0·1	+0·1	0	0	+0·1	0	−0·3	−0·2	−0·2	−0·1	0	0	0	0	0	0	0	0	0	0
March 1906 ...	Colaba ...	0	+0·1	0	−0·1	−0·1	−0·2	−0·3	+0·5	+1·3	+1·6	+1·2	+0·1	−0·9	−1·2	−0·9	−0·2	+0·1	0	−0·2	−0·2	−0·2	−0·1	−0·1	0
	Alibag ...	+0·1	+0·1	+0·1	0	0	−0·2	−0·2	+0·6	+1·3	+1·6	+0·9	−0·2	−1·1	−1·4	−0·9	−0·3	+0·1	0	−0·2	−0·2	−0·1	−0·1	−0·1	0
	Excesses ...	+0·1	0	−0·1	+0·1	+0·1	0	+0·1	+0·1	0	0	−0·3	−0·3	−0·2	−0·2	0	−0·1	0	0	0	0	+0·1	0	0	0
Whole period Means.	Colaba ...	+0·1	+0·1	+0·1	0	0	+0·1	+0·6	+1·1	+1·3	+0·1	+0·2	−0·9	−1·4	−1·3	−0·8	−0·3	+0·1	+0·1	0	−0·1	−0·1	−0·1	0	+0·1
	Alibag ...	+0·2	+0·2	+0·2	+0·1	+0·1	+0·2	+0·7	+1·2	+1·4	+0·0	−0·1	−1·1	−1·6	−1·4	−0·8	−0·3	+0·1	+0·1	0	0	−0·1	0	0	+0·1
	Excesses ...	+0·1	0	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	+0·1	0	−0·3	−0·2	−0·2	−0·1	0	0	0	0	0	0	0	0	0	0

Table IV.—Showing the comparison of mean monthly Diurnal Variation of Vertical Force at Colaba and at Alibag.

Unity = 1γ = ·00001 C. G. S.

		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
April 1905	Colaba	+6	+5	+5	+4	+4	+6	+11	+9	0	−10	−19	−22	−17	−8	+1	+4	+4	+2	0	+1	+2	+3	+5	+5
	Alibag	+3	+3	+3	+2	+4	+5	+12	+11	+3	−7	−16	−20	−15	−5	−2	+5	+4	+2	−1	−1	0	+1	+2	+2
	Excesses	−3	−2	−2	−2	0	−1	+1	+2	+3	+3	+3	+2	+2	+3	−3	+1	0	0	−1	−2	−2	−2	−3	−3
May 1905	Colaba	+5	+5	+5	+4	+5	+7	+13	+9	0	−13	−21	−23	−20	−11	−2	+4	+6	+6	+2	0	+2	+4	+5	+5
	Alibsg	+5	+4	+3	+2	+2	+5	+10	+7	−3	−16	−24	−25	−22	−11	0	+7	+10	+10	+6	+4	+5	+6	+6	+6
	Excesses	0	−1	−2	−2	−3	−2	−3	−2	−3	−3	−3	−2	−2	0	+2	+3	+4	+4	+4	+4	+3	+2	+1	+1
June 1905	Colaba	+5	+4	+5	+4	+5	+7	+12	+8	−2	−13	−19	−23	−16	−9	0	+5	+6	+4	+2	0	+1	+3	+4	+5
	Alibag	+5	+5	+5	+4	+5	+7	+12	+8	−2	−13	−23	−26	−18	−10	−1	+4	+6	+6	+3	+2	+4	+5	+6	+6
	Excesses	0	+1	0	0	0	0	0	0	0	0	−4	−3	−2	−1	−1	−1	0	+2	+1	+2	+3	+2	+2	+1
July 1905	Colaba	+4	+4	+4	+4	+4	+8	+12	+8	−2	−12	−19	−19	−14	−7	−1	+4	+6	+5	+2	0	+1	+3	+3	+4
	Alibag	+4	+4	+4	+4	+5	+9	+14	+10	0	−10	−19	−20	−15	−8	−2	+2	+4	+3	+1	0	+1	+3	+3	+4
	Excesses	0	0	0	0	+1	+1	+2	+2	+2	+2	0	−1	−1	−1	−1	−2	−2	−2	−1	0	0	0	0	0
August 1905	Colaba	+4	+4	+4	+4	+5	+8	+15	+11	−3	−17	−24	−22	−14	−5	+3	+8	+9	+6	0	0	+1	+1	+3	+3
	Alibag	+4	+4	+4	+5	+5	+10	+16	+12	−3	−16	−25	−23	−15	−7	+2	+7	+8	+5	−1	−1	+1	+2	+3	+4
	Excesses	0	0	0	+1	0	+2	+1	+1	0	+1	−1	−1	−1	−2	−1	−1	−1	−1	−1	−1	0	+1	0	+1
September 1905	Colaba	+7	+7	+7	+7	+7	+10	+17	+8	−10	−24	−31	−28	−18	−4	+5	+11	+9	+2	0	+2	+3	+4	+5	+6
	Alibag	+7	+7	+7	+7	+8	+11	+18	+9	−9	−22	−30	−28	−19	−5	+4	+10	+8	+2	0	+1	+3	+4	+5	+6
	Excesses	0	0	0	0	+1	+1	+1	+1	+1	+2	+1	0	−1	−1	−1	−1	−1	0	0	−1	0	0	0	0
October 1905	Colaba	+5	+5	+5	+5	+5	+6	+11	+11	0	−15	−24	−24	−14	−3	+6	+7	+2	−4	0	+2	+2	+2	+4	+5
	Alibig	+6	+5	+5	+5	+5	+6	+12	+12	+1	−13	−23	−26	−16	−3	+5	+6	+1	−4	−1	+1	+2	+2	+4	+5
	Excesses	+1	0	0	0	0	0	+1	+1	+1	+2	+1	−2	−2	0	−1	−1	−1	0	−1	−1	0	0	0	0
November 1905	Colaba	+4	+4	+4	+3	+3	+2	+1	+3	+2	−3	−10	−9	−3	0	−1	−1	−4	−6	0	+1	+1	+1	+3	+5
	Alibag	+4	+4	+3	+2	+2	+1	0	+2	+2	−2	−10	−9	−2	0	0	−1	−4	−5	+1	+2	+1	+1	+3	+5
	Excesses	0	0	−1	−1	−1	−1	−1	−1	0	+1	0	0	+1	0	+1	0	0	+1	+1	+1	0	0	0	0
December 1905	Colaba	+3	+3	+3	+3	+3	+2	+2	+2	+5	+3	−5	−7	−7	−5	−3	−3	−2	−3	−1	+1	0	0	+2	+3
	Alibag	+2	+2	+2	+1	+1	+1	0	+1	+5	+3	−4	−7	−6	−4	−3	−2	−1	−2	+1	+2	+1	+1	+2	+2
	Excesses	−1	−1	−1	−2	−2	−1	−2	−1	0	0	+1	0	+1	+1	0	+1	+1	+1	+2	+1	+1	+1	0	−1
January 1906	Colaba	+5	+4	+4	+4	+4	+4	+4	+7	+10	+4	−12	−17	−12	−10	−9	−4	0	−1	+1	+2	+2	+2	+3	+4
	Alibag	+4	+4	+3	+3	+3	+3	+4	+7	+10	+4	−11	−16	−11	−10	−8	−3	+1	0	+1	+3	+2	+2	+3	+4
	Excesses	−1	0	−1	−1	−1	−1	0	0	0	0	+1	+1	+1	0	+1	+1	+1	+1	0	+1	0	0	0	0
February 1906	Colaba	+3	+3	+3	+2	+1	+1	+1	+3	+6	+5	−4	−11	−9	−5	−2	−2	−1	−2	0	+1	+1	+2	+3	+3
	Alibag	+3	+3	+3	+1	+1	0	0	+3	+7	+5	−3	−11	−9	−5	−2	−2	−1	−2	0	+1	+1	+2	+3	+3
	Excesses	0	0	0	−1	0	−1	−1	0	+1	0	+1	0	0	0	0	0	0	0	0	0	0	0	0	0
March 1906	Colaba	+4	+4	+3	+3	+3	+3	+4	+8	+5	−1	−10	−15	−14	−7	0	+2	+1	−1	−2	+1	+1	+2	+3	+4
	Alibag	+4	+4	+3	+3	+3	+3	+4	+9	+6	0	−9	−14	−14	−8	−1	+2	+1	−2	−3	0	+1	+1	+2	+4
	Excesses	0	0	0	0	0	0	0	+1	+1	+1	+1	+1	0	−1	−1	0	0	−1	−1	−1	0	−1	−1	0
Whole period	Colaba	+5	+4	+4	+4	+4	+5	+9	+7	+1	−8	−16	−18	−13	−6	0	+3	+3	+1	0	+1	+1	+2	+4	+4
	Alibag	+4	+4	+4	+3	+4	+5	+8	+8	+1	−7	−16	−19	−13	−6	−1	+3	+3	+1	+1	+1	+2	+2	+3	+4
	Excesses	−1	0	0	−1	0	0	−1	+1	0	+1	0	−1	0	0	−1	0	0	0	+1	0	+1	0	−1	0

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